REPORTS

ON THE

CRAB AND LOBSTER FISHERIES

02

ENGLAND AND WALES,

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OF

SCOTLAND,

BY

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Presented to both Houses of Parliament by Command of Her Majesty.



LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTT.
FOR HER MAJESTY'S STATIONERY OFFICE.

1877.

[C.-1695.] Price 3s. 6d.

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REPORT

ON THE

CRAB AND LOBSTER FISHERIES

OF

ENGLAND AND WALES.

BY

FRANK BUCKLAND AND SPENCER WALPOLE, ESQRS.,

CRAB AND LOBSTER FISHERIES.

REPORT

ON THE

CRAB AND LOBSTER FISHERIES

ENGLAND AND WALES.

Home Office, Whitehall.

1st March 1877. SIE. In obedience to your instructions of the 13th September Proceedings of

1876, we have the honour to inform you that we have held a Commiscareful and protracted inquiry into the condition of the Crab and stoners.

Lohster Fisheries of England and Wales.

In company with Mr. Young, one of the Commissioners of Scotch Salmon Fisheries, we have also held an inquiry into the condition of the Crab and Lobster Fisheries on the coasts of Scotland. The results of our inquiry in Scotland are communicated by us to the Secretary of State in a separate report, We believe, however, that it will be found that the two reports

are consistent with each other. The chief fisheries for crabs and lobsters in England and Wales Raumeration are in Northumberland, Yorkshire, Norfolk, Sussex, Hampshire, of principal Dorsetshire, Devonshire, and Cornwall. The chief market for all

fish is at Billingsgate, though there are of course other large provincial markets. The Norfolk fisheries formed the subject of a separate report presented to Parliament during the Session of 1875. We have held sittings at North Sunderland and Cullercoats in Northumberland; at Whitby, Scarborough, Robin Hood's Bay, Flamborough, and Bridlington in Yorkshire; at Cromer, in Norfolk; at Looe, Polruan, Polperro, Mevagissey, Falmouth, St. Mawes, Durgan, Cadgwith, Penzance, and Sennen in Cornwall; at Plymouth, Wembury, Hope, Prawle, Hall Sands, and Budleigh Salterton in Devonshire; at Hamble in Hampshire; at Bognor in Sussex; at Birmingham; and at the Hall of the Fishmongers'

Company in London. Among the numerous places on the coast which it has been our duty to visit, there has not been one where we have not been welcomed hy the fishermen; among the many witnesses whom it has been our duty to examine, there has hardly been one opposed to all legislative interference. Laws for the government of the fishery were asked for, both in those places where it was admitted that the fishery was falling off, as well as in those where no failure could be traced.

The evidence which we thus obtained was of such importance that we have printed our notes of it in an appendix to this Report. As we had not the advantage of the services of a shorthand writer, the evidence, of course, appears in less detail than is usual in similar documents. We are now in a position to make the following report:-

English markets, how supplied with shell fish.

The English markets are mainly supplied with lobsters from Cornwall and the south coast of England; from the Orkneys and Hebrides in Scotland; and from the west coast of Ireland, Lobsters are also imported from Norway, France, and Sweden,

The first of these countries sends annually about 600,000, the second of them 200,000, lobsters to Billingsgate.

Orabs are caught on the south and east coasts of England, in nearly every part of Scotland, and in Ireland. We exclude from this report all reference to Scotland and Ireland, which form the subjects of separate reports.

Billingsgate used formerly to be the great centre of the supply to all inland towns. Since the construction of railways the great towns, which used to be supplied from London, are supplied direct from the coast. Crabs and lobsters used in former years to be brought to London in welled smacks. The welled smacks were long ago superseded by steamers; the steamers

have since been superseded by the railways.

Crabs and lobsters are sold in different ways in different parts of the country. In Billingsgate crabs are sold by the barrel or the "kit;" lohsters by the "turn." A turn of lobsters consists of different sized fish. The smallest fish are called "Worst Nancy," the slightly larger fish "Best Nancy;" * these are small lobsters 94 and 8 inches in length respectively. 80 fish-40 Best Nancies. and 40 Worst Nancies—make a turn. A turn may also consist of "Best Doubles;" these lobsters are larger than the best nancy; 40 of them make a turn. A score and a half of large lobsters also make a turn, which in this case consists of 20 large and 10 still larger lobsters. A fishmonger, however, who requires 10 of the largest lobsters is obliged to take (according to the custom of the trade) a turn of "Nancies," and "Best Doubles" as well. In another sense, therefore, a turn may be said to consist of 40 Best Nancies, 40 Worst Nancies, 40 Best Doubles,

and a score and a half of large lobsters. On the coast, crabs and lobsters are usually sold by number or by the "dozen." All fish under a certain gauge (the gauge varying in different localities, and being fixed by the local merchants,) go 2 for 1. In some parts of Cornwall a "dozen" consists of 26 fish

over the gauge, or 52 fish under the gauge. In Bognor, how- We are unable to assertain the origin of the word "namey;" but small lobsters are known as "nintycooks" on the north-east coast of England, and the name is

ever, crabs and lobsters are both sold by weight; and the small crabs on the north-east coast are also sold by weight.

Crabs and lobsters form the most important species of Natural bistory the stalk-eyed crustacea. The principal crab eaten in this of crabs and country is the Cancer Pagurus. Only one species of lohsterthe Homarus Vulgaris—is found off the coasts of Great Britain.

In using the word "crab," then, we shall always in this report refer to the Cancer Pagurus. The word "lobster," in the following pages, similarly refers to the Homanus Vulgaris alone.

Till a comparatively very recent period, little was known of the natural history of the numerous crustacea. No naturalist had made it his special husiness to observe the metamorphoses to which these creatures are liable. Various opinions were entertained by the highest authorities on the subject; and the minute Zoea, which have since heen proved to be the young of the different kinds of crustacea, were commonly classed as distinct forms of life. About the year 1770, a Dutch naturalist, Slabber, discovered that one of these Zoea, which he kept in captivity for the purpose of observation, entirely changed its appearance on the third and fourth days of its detention. The metamorphosis was so complete that some of Slahber's critics doubted whether, in renewing the salt water, he had not accidentally released his original captive, and imprisoned a new one. Subsequent inquiries leave little room, however, for disputing the accuracy of Slahher's observations. In 1823 Mr. Vanghan Thompson "established the remarkable fact that those " anomalous forms which constituted the genus Zoca of Bosc are " nothing more than the early or larve condition of the higher " crustacea." Mr. Thompson succeeded in keeping one of the larger Zoea, and in watching the same metamorphosis which Slabher had observed. He succeeded in hatching the ova of the common crab, and in establishing the fact that the produce " were

" true Zocas." The late Mr. Couch (whose elaborate researches into the history of almost every form of ocean life have made his name a household word among ichthyologists) repeated Mr. Thompson's experiments. He also succeeded in hatching out the ova of the Cancer Pagurus, and in watching the young through

two distinct metamorphoses.

The reader, who may wish to pursue the subject further, will find illustrations of the earlier stages both of the lobster and the crab in the interesting introduction to Bell's History of the British Stalk-eyed Crustacea,* and in Mr. Spence Bate's paper in the Philosophical Transactions. We may take this opportunity of saying that we are much indebted to these works for the information with which we have been enabled to preface this report. In a public report of this description, however, it would be impossible to follow out the subject more minutely; but one of us. Mr. Buckand, has, in an appendix,† given detailed results of his observations and experiments undertaken, during the period of this inquiry, with a view to elucidate the subject,

In the earlier stages of their development, these crustaces, like all others, assume forms which are totally dissimilar from their subsequent appearance. But, when all their metamorphoses are complete, their subsequent growth is still marvellous. The crab measuring an inch across its back, the lobster measuring an inch in the barrel, are as perfect in form and structure as the largest crabs and lobsters. Both the crab and the lobster in their minutest forms are surrounded with a hard calcareous armour-like tegument. The covering cannot by any possibility expand; and how is it possible for the animal to grow without increasing its shell? The problem is solved by the creature withdrawing itself entirely from its shell, having previously secreted a new and larger covering for its future use. A most remarkable circumstance connected with this episode

in the natural history of the higher crustacea is that the animal, when it withdraws itself from its shell, is always considerably larger than the shell from which it is withdrawn. Since the soft new shell, in which the creature is already encased, immediately commences to harden, its growth could be effected by no other arrangement. But the marvellous fact still remains, that the creature is enabled to withdraw itself from its cast shell, and that the shell from which it has withdrawn itself is as perfect and unbroken as ever. The plates which accompany this report will show, more

distinctly than mere words can express, the growth of the crab on casting its shell. (Plate No. 6.) It would materially have facilitated our labours if we had any reliable data to show at what periods crabs and lobsters east their shells. We reproduce, for this purpose, the observations of a French naturalist on the subject, which have already appeared in the Report on the Fisheries of Norfolk.* These observations

6th 2	Sheddings.	Length.	Weight.	
	9th 10th 11th 12th 13th	2 2 2 2 3		

⁽Vide Parliamentary Paper, No. 428, Session 1875.)

^{*} According to some careful observations made at the Marine Laboratory, Concarneau, it appears that, the first year, the lobster sheds his shell six times, the second year six times, the third year four times, the fourth year three times.

The following table shows the rate of growth in a lobster after each sheekling of

would seem to prove that, in the earlier phases of their existence, the lobster and the card cast their shells repeatedly within the year. It is, we think, tolensily certain that adult female crabs only east their shalls once in each year. But the larger enable either do not cast their shells at all, or cast them only at remote intervals. Oysters of considerable age are constantly found intervals to the control of the control of the control of the time of the control of the control of the control of the time of the control of the control of the control of the control time of except immediately after its birth, it follows that the can cannot have out its shell during the whole lifetime or the cyster.

Crabs which have cast their shells are known by various names. They are called "eastern," "elight enable," white-fived crabs," "white-livered crabs," and "soft crabs." When the new shell commences to harden, but is still brittle, they receive in some places the expressive name of "glass crabs." In this reporwe have applied the ordinary term, "soft crabs," to all crabs

in this condition.

When the she crab has shed her shell, she appears almost invariably to reture to some comparatively and his in a rock. In this position she is most under the problem of the position she in the continuation of the continuation of the continuation that period. Mr. Coust's opinion is shared by observant shineman in every portion of the country, who had probably never beard of Mr. Could's theory, but had, from their own observations, of the country of the

There are both positive and negative reasons for conceiving that the female oral, when the beries are extruded, nigrates to some warm sandy plateau more suited for the development of the sone warm sandy plateau more suited for the development of the sone than the rodry shores which from her usual labitat. The negative evidence, on which we found this inference, consists of the fact that, shough Correal produces larger and finer early than any county in Great Berlain, berried ends are hardly even town of the sone of t

So far as we can gather, the babits of the crab are nearly similar in every part of the United Kingdom. But the seasons for eating crabs vary in a very striking way, and for a very remarkable reason. In Soutland the crabs which are the most highly prised are the females, with red coral or ova inside their shells. A female crah in Soutland is more valuable than a male crab. In England, on the contrary, the female crab is less appreciated. A very influential witness at Penzance went the extreme length of saying that they were "no good," and ought not to be caught at all. In Scotland, therefore, excha ser chiefly esten in the summer and early autumn, when the females are in best condition. In England, on the contrary, oraba are considered at their best in the early spring, when the male is most full of means.

The natural history of the loluter guestully resembles the natural history of the end. The loluter, like the eral, in the earliest stages of its growth, bears a form wholly different from that of its adult state. The lobster, like the eral, has the power of casting its hard shell and of forming a new shell. The lobster, like the eral, aerories is now a during the salite period of pregnancy flict the end of the sality of the proper at a later period of extrading them and of fatening but on the lotter appendages which are placed for the purpose under its tail.

Manner of conducting fishery for crabs and lobstees

The fishery for crabs and lobsters is conducted in every part of the Kingdom in the same manner. Traps made of wicker-work, or of a wicker frame covered with netting, and usually known as "pots" or "creels," are almost universally used. The pot is baited with some fish, fresh fish heing preferred for crabs, and stinking fish for lohsters, and sunk in from 3 fathom to 45 fathom water. The crabs and lohsters enter the pot in search of the food through a hole or pipe 41 to 5 inches in diameter, and are found in it when the pots are examined. The pot or creel, therefore, acts on the principle of an ordinary mousetrap. The number of creels which a boat will carry varies in different localities. In some places as many as 100 creels, in others as few as 20, are carried by a single boat. But in every case the creels are left unattended by the fishermen, and only periodically examined (usually towards dawn) by the owners. 'A creel, therefore, is a fixed engine, perpetually fishing during the whole crab and lobster fishing season, and only requiring the occasional attendance of the fishermen.

Creek, however, simple engines though they be, have only to mixtudeed into some pinces. The fahreron used to fish with a much more primitive and less efficacions engine. An iron ring had a small net stateched to it in the shape of a purse. The net was baited and let down. The fisherman constantly examined the ring to see if there were any fish on it, and the ring while it was being drawn up for examination person that ring while it was being drawn up for examination person that the ring while it was being drawn up for examination person to the ring while it was being from the ring therefore required the constant attention of the fisherman connected with it could constantly examine. The substitution of reals for rings therefore, enabled seen fisherman to work more create for rings therefore, enabled seen fisherman to work more engine with a very most low labour to himself. It and so work them with very most low lower than the results of the rings of the

Having disposed of these preliminary remarks, we proceed

to examine the condition of the crab and lobster fisheries in

different parts of this country.

The principal fisheries for crabs and lobsters are on the coasts Condition of Northumherland, Yorkshire, Norfolk, Sussex, Hampshire, Saheries:—

Dorsetshire, Devonshire, and Coruwall. We have therefore mainly directed our inquiries to these coasts. In Northumherland we sat 1. Northumherland and Culleroats. We had the advantage berhand at these places of meeting also the fishermen from Beednell,

Craster, Hawkley, and Newhiggin; so we practically obtained representative evidence from every portion of the coast of Northumberland. We had witnesses before us at North Sunderland who recollected the time when the lobsters caught on that coast were sent away in welled smacks to London, and when crabs did not pay the cost of carriage to market. The construction of the North-Eastern railway altered the conditions on which the fishery had previously been carried on. Crabs became profitable, and rose in price to 4s. 6d. a score. The increase of price induced more fishermen to follow the trade. The number of boats increased, and each boat carried more gear and more efficient gear. The old "trunks," or iron rings, were discarded, and creels were introduced. Increased fishing led induhitably to a decrease in the number of the fish. The average take of lobsters per boat has been reduced from about 12 to ahout 3 per day. A witness told us that "when he was a lad he could with his present " tackle have got 50 score crabs in a night. The most they ever " got last year was 22 score." The failure at Craster and North Sunderland "began to be perceptible about 25 years ago." Some of this decrease is no doubt accounted for by the altered conditions of the fishery. If the number of boats fishing a given space of ground is doubled, each boat has no right to expect to obtain as many fish as it would have done with only balf the number of competitors. The whole take has to be divided into more shares, and each share is of course diminished. We have, however, very little doubt that both crahs and lobsters are decreasing in quantity at North Sunderland, and that the decrease is likely to continue if no means are taken to check it.

There are, indeed, reason for fearing that this decrease will in future years become more marked. Up to the last few years the fining season fire was the fining season fire which is a substitute of the season of

The evidence, which we received at Cullercoats corresponds with that which was offered us at North Sunderland. The fishermen have no doubt whatever that the crabs and lobstevs

are decreasing. The decrease has, in fact, been so marked that it has actually, in some cases, led to diminished fishing. It was suggested to us that the decrease was attributable to the very considerable operations which are in progress for improving the navigation of the Tyne. The Tyne Navigation Commissioners have dredged annually some 500,000 tons of clay and other stuff from the bed of the river, have placed it in barges called "hoppers," and carried it out to sea. The alkali manufacturers have, concurrently, disposed of their refuse in the same way. The fishermen allege that this refuse has in some cases settled on the rocky ground near the mouth of the river; that it has bad the effect of covering up the holes in which the embs and lobsters live; that the character of the sea bottom has been gradually altered; and that it has been made less and less suitable for crabs and lobsters; and that the crabs especially have fallen off in consequence. We are far from saying that no attention should be paid to this allegation; we think it probable that these operations may have had a very pernicious effect on the crab and lobster fisheries at the mouth of the Tyne; but we cannot believe that they form the only or even the chief cause of the decrease of these fisheries. The failure which we found at Cullercoats is almost as marked at North Sunderland, and the fisheries off North Sunderland are not injured by any operations such as those which have been conducted at the mouth of the Type for the last 20 years. It is a fair inference that the cause which is affecting crabs and lobsters at North Sunderland is also affecting the fisheries at Cullercoats, and that we therefore ought to search for a cause common to both places, and not for a reason singular to only one of them.

We are disposed, then, to conclude that Cullercoats, like North Sunderland, is suffering from over-fishing, and this conclusion is assisted by reviewing the state of things which exists at an intermediate village, Hawxley. We are assured that there is no decrease either of crabs or of lobsters at Hawxley. "There are as " many crabs and lobsters as there were 15 years ago," said the first of the three Hawxley witnesses whom we had before us. "The " lobsters are just as thick as they were the first day he went to " sea," said the second of them. "There is no decrease at Hawxley." said the third. But the Hawxley men bave been in the habit of keeping a close season from June to October, and of returning all undersized crabs and lobsters. The success which has attended these self-imposed rules at Hawxley points to their extension to other places; and, as a matter of fact, the fishermen throughout Northumberland are in favour of some such rules as these. "The " universal opinion at Craster," said one fisherman to us, "is that " the close season should commence on the 1st June and end on " the 30th November." The Craster, North Sunderland, and Beednell fishermen are unanimous in thinking that no crab under 44 inches across the back, and no lobster under 4 inches in the barrel, should be taken. Much the same recommendations were made to us at Cullercoats. No crab, it was suggested, should be

taken under 4 inches across the back, no lobster under 4 inches in the barrel, and a close season during June, July, and August, or during June, July, Angust, and Saptember, should be observed, We shall consider, in a later portion of this report, the possibility of giving effect to these recommendations; we thought it our duty to note them here.

The fisheries for crabs and lobsters off the coast of Yorkshire.

2. Yorkshire. are at least as important as those off the coast of Northumberland.

are at least at important at those for two closes. The volume of the control of t

"worn Il years ago", the "lobaters are also decreasing," said the second witness. "Lobaters have been falling off gradually for the last 60 years"; "the erabs have fallen off in numbers," were the conclusions of the witnesses from Statibes. "The erabs are not so plentiful as they used to be; they have been diminsibiling in number every year for the last 20 years." "Them

" ishing in number every year for the last 20 years.
" were twice as many crabs in the sea in 1837 as there are now."
Such were the opinions of all the fishermen at Robin Hood's Bay.
" There are fewer crabs in the sea than there were—a good deal

"fewer. The lobsters are also fewer." This was the declaration of an experienced fisherman at Scarborough, which was strikingly confirmed by subsequent witnesses. It may therefore be taken for granted that from the North of Yorkshire to Filey Brigg, the southermone boundary of the Scarborough fishery, there has been a gradual and serious decrease in the yield of both crabs and lobsters.

Nor are the fishermen unanimous only in pointing to the fact of a decrease. They are equally agreed in attributing the decrease to over-fishing. At Whitby, at Scarborough, and at Robin Hood's Bay the fishermen desire to prohibit the capture of all lobsters under 4 inches in the barrel. At the two former places they are anxious that all crabs under 41 inches across the back should be spared, while at Robin Hood's Bay they desire to kill all over 4 inches. At Flamborough and at Bridlington, indeed, we heard a somewhat different story. Some of the fishermen thought that there was no decrease; others of them were of opinion that there was no decrease in number, but that the fish were smaller in size. It was proved to us at Bridlington that 30 years ago few small crabs were caught at all. The fishermen avoided the submarine plateau of sand near the quay, where the small crabs are known to congregate, and which is probably a great nursery for them. Of late years, however, this submarine plateau has been the chief fishing place. The railways have created an enormous trade in small crabs which are taken to the great manufacturing towns of Yorkshire, Lancashire, and the midland counties. One witness told us that many a night he has caught 300 of these little crabs, which are usually sold for 2d, or 3d, a score. Some of the inhermon insisted that if this trade were stopped they would be unable to earn a livelihood, and would be thrown with their the state of the they were occasioning, and anxious to put an end to it. An old hisherman, with 45 years' capteriesc, told us that he and two older men had a 44-indu gauge made last year, and actually assest to no gauge of a smaller sless. We shall consider, for its proper place, the practicability of these recommendations. We need only remarks here that all the failuremen at Planchrough and Bridlington are ready to necept a 4-inch karrel gauge for lobsters one of them desiring to fix this gauge at a 4, other at 4+ inches.

Coznwall.

The fisheries of Cornwall and Devonshire are in a somewhat different position from those of Northumberland and Yorkshire. If reference be made to a map of Cornwall, it will be seen that two promontories, known respectively as the Lizard and the Land's End, stretch into the English Channel and the Atlantic Ocean. Both these promontories are exposed to heavy seas. Storms constantly interfere with the calling of the fishermen, and the weather itself imposes a natural close season without the intervention of Parliament. At both these places we can trace little or no falling off in the fisheries. "Crabs and " lobsters are no scarcer than they were." "There are more " crabs and lobsters than ever." Such was the story which we heard at Sennen Cove, near the Land's End. "There is nothing " the matter with the fishery." "Lobsters are in about the " same quantity they were 20 years ago." "The crabs are more " plentiful than they were." Such was the opinion of experienced fishermen at Cadgwith, a fishing village near the Lizard. In both these places, therefore,-one of which, the Land's End, is chiefly celebrated for its lobsters, the other, the Lizard, for its crabs,-there is no trace of any decrease. But in other parts of Cornwall a very different story, was told to us. "The " fishery is now quite different from what it used to be. Formerly " fish were more plentiful and the price was less; now the price " is greater and fish are scarcer. Forty years ago a fisherman " could catch as many crabs in a day as he would now catch in " a week . . . Lobsters are also getting scarcer every year." Such was the evidence at St. Mawes. "There are fewer crabs than "there were 20 years ago; lobsters also are scarcer." "Crabs and lobsters are decreasing; they are overfished." This was the story at Durgan. A fisherman at Penberth was "sure the "fish are falling off." "The fish are not a quarter so thick as " they were formerly" in Prussia Cove, "unless you go a long " way off." "The grounds inshore have been fished out, and the men have to go to deeper water." Such was the evidence at Penzance. The same story may be gathered from the evidence in other places. Where the ground is small and sheltered the

fishery is decaying. Where it is exposed to the sea, as at the Lizard and the Land's End, or at some distance from the shore, as at Gorran, near Mevagissey, there is no clear proof of any decrease whatever. The whole of the Cornish evidence may, in fact, be summed up in the sentence that the fisheries in bays require protection, but that the large fisheries off headlands or in the deep water need no protection from the Legislature.

The conditions of Devonshire in some respects resemble those 4. Devonshire. of Cornwall. The finest crabs in the world are caught off the Start Point, and we had the opportunity of examining witnesses belonging to Beeson Sands, Hall Sands, Prawle, Hope, Wemhury. and Plymouth, whose evidence discloses the condition of the fishery all round this headland. "There is no lack of fish" at Hall Sands. "The crahs have not fallen off" at Beeson Sands. "There are as many crahs now as there were 35 years ago" at Hope, "The fishery is in good condition" at Wembury. The only contradiction to this universal testimony was given at Prawle and Plymouth. At Prawle there appears to he an undoubted decrease in the number of crabs; but the fishery at Prawle, though on the extreme end of the promontory, is a very small one, extending only half a mile to the east and half a mile to the west of the point. It appears, again, from the evidence at Plymouth, that the crabs immediately outside the hreakwater are diminishing in numbers. But this evidence does not militate against our conclusion that exposed fisheries of large areas require little or no protection. The fishermen who gave us this evidence spoke of the ground within three miles of Plymouth breakwater, and this ground is only so exposed in certain winds. There has been a greater increase of fishing upon it than almost in any other place we have visited. The fishermen, moreover, complain that it is partially destroyed by the refuse from the Vitriol Works at Plymouth which is carried in harges out to sea and tipped into the water outside the breakwater. This evidence, of course, resembles that which we received at Cullercoats, and it tallies with it in one respect in a very remarkable way. The fishermen at Cullercoats declared that the lobsters had not suffered from the pollution so much as the crahs, and they professed themselves unable to account for the different effects of the refuse on the two fish. The fishermen at Plymouth also noticed that the pollution had had a less prejudicial effect on the lobster than on the crab fishery, and they accounted for the circumstance by stating that the lobster, heing quicker than the crah, got out of the way of the pollution. Whether this explanation be correct or not, it is at least remarkable that, at the two places at which our attention was drawn to the consequences of pollution the effects should have been observed on the crabs and not on the lobsters.

The conclusion which we formed in Cornwall and in the neighbourhood of the Start agrees also with the evidence which we received in the extreme East of Devonshire at Budleigh Sal5. Sussex.

terton. The fishermen there have two grounds at their disposal: one off some rocks, known as the Exeters, out at sea; the other inshore. There is little or no decrease off the Exeters, but there is "a greater decrease in the inshore ground." Bognor, on the coast of Sussex, in some respects resembles Budleigh Salterton. There are some rocks called the Owers 12 miles out to sea, where there is a considerable fishery, and there are no indications of any failure on these rocks. But the inshore fishery is in a different condition. The bottom of the sea is a warm plateau of mud and sand covered with weed, which is apparently a nursery for small crustacea. The smallest lobsters in England are caught on this plateau, and very small crabs are also taken in the immediate neighbourhood off Selsea. The fishermen consider that the lobsters come here from other places for the purpose of reproduction, and they assert that there are no indications of any diminution in the number of these crustacea. It is universally admitted, however, that the crab fishery at Selsea is declining in importance, and that there are not one third so many crabs as there used to be. It ought to be added that Bognor is more dependent on its prawn fishery than on either lobsters or crabs, and that the little lobsters are taken with the prawns in the prawn pots. We have thus endeavoured to relate some of the salient points in

We have thus endeavoured to relate some of the salient points in the natural history of the lobster and of the erab; by describe the manner in which the erab and lobster faberies are conducted; and to review the condition of the principal faberies on the coasts of this country. It remains for us, in conclusion, to sum up the facts which we have thus related, and to enumerate the rules which, in our judgment, should be adopted for the regulation of

Are the crab and lobster fisheries increasing or decreasing.

these fisheries. In a great many cases it is not very easy to conclude whether the fishery is falling off or not. The increase in price is certainly in almost every case greater than the decrease in the supply. The take in many cases is not so large as it used to be, but in nearly every place it is more valuable. The increased price and the greater facilities which railways have afforded for bringing the fish to market, bave attracted more fishermen to the pursuit, and have induced them to follow the crabs and lobsters into much deeper water than formerly. It is no very easy matter, therefore, to compare the results of the fishing now with those which were experienced 50 or 25 years ago. The take now is divided among a greater number of fishermen. The area of the fishery has been largely extended. On the whole, however, we believe that we are in the right in concluding that in small fisheries, or fisheries in confined areas, there has been in every case a marked decrease of fish; while in large and exposed fisheries there has been no decrease whatever, Take, for example, the fisheries off the Land's End, the Lizard, and the Start. All these fisheries comprise large areas of sea-bottom, all of them are in exposed situations, and the powers of man have been hitherto incapable of exhausting them. But there are other

fisheries in an exactly opposite position. A description will be found, for instance, in the evidence which we received at Wembury. relating to a small fishery off the Eddystone Rocks. The fishery is contained in a few acres, and, though the situation is exposed, the area is so small that the fishermen have been able to exhaust it. The same conclusion is true of the fisheries which are situated in confined bays, such, for instance, as that at Falmouth. The fishermen there, exposed to no bad weather, are able to pursue the fishery at every season of the year. High prices have induced them to increase the efficiency of their gear, and the gradual decay of the fishery, which over-fishing has occasioned, has compelled them to fish harder and harder to earn a livelihood. The fishermen in these cases are themselves conscious of the loss which they are themselves producing. But without the aid of Parliament they are unable to enforce the regulations which in their judgment would restore the fishery.

As regards the lobster fishery, three suggestions have been suggestions made to us for its improvement, viz., the institution of a gauge; the fishery:the enactment of a close season; and the prohibition of the sale of berried lobsters; but the suggestion which has found most universal favour is the institution of a gauge. In Cornwall and Devonshire, in Yorkshire and Northumberland, the fishermen have almost Gauge for without exception suggested that no lobster should be sold under a lobsters. length of about 8 inches. The same recommendation was made to us by the great fish merchants who are established at Hamble, and by the great salesmen in Billingsgate Market. The lobster, it must be stated, is not measured in the same way in all parts of the country. On the north-east coast it is usual to measure it from the tip of the beak to the end of the body or "barrel." At Billingsgate, at Hamble, and on the whole of the coasts of Devonshire and Cornwall, the lobster is measured from the tip of the beak to the end of the tail. On the north-east coast of England it was suggested to us that no lobster should be taken under 4 inches in the barrel. In the rest of England the almost unanimous recommendation was that no lobster should be taken under 8 inches in length. These two recommendations are practically very similar. A lobster 4 inches long in the barrel is usually rather more than 8 inches in length; but, as it is always undesirable to interfere with local customs, we see no reason why both gauges should not be inserted in any Act of Parliament that may be passed. It would then be illegal to sell any

lobster which did not measure either 8 inches in length or 4 inches in the barrel. If the gauge be adopted, it is in our judgment essential that it should apply to all the fish markets. The only practicable means of enforcing a gauge is to enforce it in the markets, and the gauge must therefore apply to all lobsters sold in those markets, wherever they may be taken. The only practical difficulty in enforcing the gauge arises from the large importation of Norwegian lobsters, and we think it would be unwise to attempt

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Norwegian obster trade.

any legislation without considering the effect which it might have on this trade.

It is stated in Vice-Consul Crowe's report on the Norwegian fisheries for the year 1874, presented to Parliament in June 1875,* that "of lobsters there were exported during the year from-

Christiansand		-	-	201,980	
Mandal -	-	-	_	50,000	
Farsund -	-	-	-	113,518	
			-		

"The average price is stated to be 51d.

1872 -

" Comparing the results of the last three years, it will be seen " that in 1874 they were double those of the two preceding.

" Thus :				-	
IIIus.—			Number of Lobsters.	Value.	
1874	_	-	- 365,518	€8,122	
1878	-	_	- 294 099	4.856	

207.299

8,111"

Mr. Crowe's figures are confirmed by the very important report from Consul-General Jones, which is published in an Appendix. and for which we are indebted to the courtesy of the Foreign Office. "The annual take of lobsters in Norway," says Mr. Jones, "may be estimated at about 1,000,000, representing a

" value of about 22,500l. They are exported chiefly to the United " Kingdom, and this trade is rapidly increasing in importance,

" according to the following returns :-Year. Number.

1876 -No returns. 1875 -400,000 £8.889 1874 -365.518 1878 -294,099 4.356 1872 -207.299 8.111"

It is obvious, however, that Mr. Crowe's figures entirely refer to the trade of three particular ports, Christiansand, Mandal, and Farsund. Mr. Jones apparently reproduces, and continues to a later date, the same statistics. But the figures which are thus given cannot represent the whole export trade of Norway in lobsters.§ We had the advantage, at our sitting in the Fishmongers' Hall, of examining Mr. Fisher, a fish salesman of

^{*} Padiamentary Paper, "Commercial No. 11 (1875), Part IV. [C. - 1288]."

† Sis in report (p. 814), but there is apparently a misprint in the return from
Paramal, which should probably be 113,588, instead of 113,518.

I Joint Appenix, No. 1.

† The author of "Sport in Norway," writing to Lord ond Water, May 25th, 1897,

† The author of "Sport in Norway," writing to Lord ond Water, May 25th, 1897, gives the following particulars concerning the trade in Norwegian lobsters :- "In " 1855 there were exported 814,187 lobsters; in 1858, 960,888; in 1857, 717,883; " in 1808, 553,238; in 1859, 881,381; in 1860, 1,333,137; in 1861, 1,460,899; in

Billingsgate, extensively engaged in the Norwegian lobster trade. " The supply," Mr. Fisher told us, "has fallen off during the last " seven years. 10 or 12 years ago he used to have about " 600,000 lobsters a year from Norway, from three districts only. " Is now working six districts (double the amount of coast), and " the six districts only produced last year from 400,000 to " 500,000 lobsters." The purport of Captain Harnden's evidence, given to us at Hamble, is very similar, and leaves little room for doubting that there has been a very serious falling off in lobsters in Norway. The matter, in fact, has been before the Norwegian Parliament for three years running. "During the late session of " the Storthing," Mr. Jones writes, "a Royal Proposition was laid " before it," that it should "be unlawful at any time to possess, " sell, buy, or receive lobsters under 8 inches in length, as well as " lobsters in spawn. The rejection of this amendent was, how-" ever, recommended by the Committee appointed to report upon " it, on the ground that those best acquainted with the subject " failed to recognise its necessity, and, further, that the enforce-" ment of the provisions of the proposed amendment would be " attended with much difficulty; that from the statistical facts " before the committee there was no evidence of a diminution in " the supply of lobsters of late, and that consequently the circum-" stances did not warrant the adoption of the extraordinary " regulations proposed, which would be justifiable only when " there was a prospect that without such restrictions the fishery

" in question would materially suffer." The rejection of this regulation has virtually left the Norwegian law in the position in which it has remained since 1848. By the law of 1848 a close season for lobsters is instituted, commencing on the 15th July and ending at the close of September. The close season may be varied by the King's authority, but the whole month of August must always be closed. It is, of course, no portion of our duty in this report to pronounce an opinion on the policy of this law, or on the recent rejection of the proposal for its amendment; but the English are so dependent on Norwegian lobsters that it would be folly for us to recommend the institution of any regulations which would be either inconsistent with the Norwegian laws, or have the effect of destroying the Norwegian trade. We concluded, therefore, that we could not do better than state the conditions under which the Norwegian fishing for lobsters has hitherto been conducted.

It will be sent from the foregoing remarks that an S-inch gongs has already been proposed in Norway. Of the two merchants engaged in the Norway trade, whom we had the advantage of examining M. Tables, of Billingspace, we say that the sent opinion that an S-inch gauge would gauge would be devenued in the sent of the s

Bognor lobsters. ment may fairly enact that, with one exception, no lobster shall in future be sold in this country under 8 inches in length.

in future be soid in this country under 8 inches in length. The exception which, we fare, must be made by the fact that the country with the country of the fact that the fact that the country of the fact that the fact that

Close senson for lobsters.

8 inches long or 4 inches in the barrel. Two other recommendations have in some places been made to us for the improvement of the lohster fishery. It has been suggested to us that a close season should be instituted, and it has also been suggested that the sale of berried lobsters should be prohibited. A universal close season is impracticable, because the season which would suit one part of the coast would be quite inapplicable to other parts. In a great many places the storms of winter afford by themselves a sufficient close season. On the coast of Cornwall, again, the pilchard fishery practically entails a close season. The drift nets of the pilchard fishermen become entangled with the gear of the crabbers, and the latter have to remove their pots to save their property. On the east coast of England, again, the herring season affords a natural close time. The crabbers leave their pots to follow the herrings, which afford a more profitable industry. A close season is, then, for all intents and purposes, already established in some places. In others, no close season is necessary, on account of the extent and situation of the fishery. No universal close season need therefore be imposed by Act of Parliament. But we are inclined to think that the Secretary of State should have power to institute local close seasons in certain districts : this power, however, should only he exercised after careful inquiry and with very great caution.

Berried lobsters. should only be exercised after careful inquiry and with very great caution.

We are also unable to endours the other recommendation which has been made to un viz., that the sale of berried lobeters which has been made to un viz., that the sale of berried lobeters take berried lobeters, it would not pay the fahermen in many cases topursues the lobeter fishery. In the next place, the lobster when berried is in the vary best possible condition for food, and it would be as ligocial, therefore, to prohibit its capture as to problish the taking of full berrings. In the third place, if its capture were lingle, Mr. Scovell's redence at Hamble shows that capture were lingle, Mr. Scovell's redence at Hamble shows that would no longer be seen in the market, but its. The lobeter would be killed as much as even. Berried lobeters are, it must be remembered, especially valuable. The berries are in great demand for same and for garmide for fish and aslad. We do not for one moment blink that the views of profused cooks ought to onlinease lightlinks, or that our recommendations cought to introduce the contract of the contract of the contract of the same inventibable to make any segment on the subject, first, seems it is not desirable to deprive the public or 1 along a mount of valuable food, and the fisherman of a considerable portion of the profus and, second, because the public of the borries. We recommend, therefore, the institution of a gauge as the only remedy universally applicable for the improvement of ur better

fisheries.

We are also of opinion that a gauge should be adopted for Gauge for crabs. But, on this point, we are met with a preliminary erabs.

difficulty. In the west of England the crabs are all large, and a 5-inch gauge, or in some cases a 6-inch gauge, is required.* On the east coast, on the contrary, the crabs are very small, and a gauge of 4 inches, 44, or 45 inches is recommended to us. The east coast fishermen conceive that the whole of England should he open to the sale of these small crabs. But this recommendation we are unable to adopt. In our judgment the proper solution of the difficulty is to enact that in the eix eastern counties, Northumberland, Durham, Yorkshire, Lincoln, Norfolk, and Suffolk, no crab should be sold less than four and a quarter inches across the back, and that in the whole of the rest of the country no crab should be sold under five inches. The only danger from the institution of two gauges lies in the circumstance that the small crabs might be sent from Devonshire and sold in Yorkshire. But there is in reality no very great fear of this result; the small crabs do not pay to carry long distances, and it will not pay therefore, as a general rule, to send them from the south to the east coast of England. The only place outside the eastern counties where the five-inch gauge will, so far as we know, be objected to is Selsea, and it is of course possible to get over the difficulty by sanctioning the sale of small crabs as well as small lobsters within the county of Sussex. There is a good deal to be said, from the Selsea point of view, for this arrangement. We are unable to endorse it ourselves, because we believe the Selsea crabs to be the young of a large crab, and not a small kind of crab like those on the east coast of England. The crab fishery at Selsea is moreover admittedly declining, and it requires therefore strong measures to ensure its recovery. We therefore recom-

mend that the 5-inch gauge shall apply to Selses.

There are two other methods by which the crab fishery may Beried crabs.
be improved. Though the berried lobster is the most valuable of

^{*}The gauge of course applies from side to side of the crab, and not from head to tail.

Soft crabs.

lobsters, a herried orab is almost valueless. While it would be impellist to enach that no berried lobster should be said, there would be no difficulty in exacting that herried crabs should not be sold. It is almo most advisable that the said of "saft' cande should be prohibited. These fish are wratery, have little or no mean in them, and are almost valueless as food. They ought to be returned to the sea to be permitted to recover and grow.

It will be observed in the forecoming recommendations, that

Enforcement of law in markets.

we have uniformly proposed to profilist the sale, not the outpure, of cortain kinds of erals and lobelses. We have done so for two reasons. In the first place "soft" crube and undersized crube are coastionally used by himsense as but for find, and we are coastionally used by himsense as but for real, and we are first with the bait which shearmen may dessu it requisits to employ. Bait is of more importance to the falkerman than anything elso. A fisherman told us at Penzamon that he would cut up a turbod word, a sovereign rather than be without thait; and it is much of men should he without employment for want of bait. When the should be sufficiently and the should be should be sufficiently and the should

We believe, moreover, that the only practical way of carrying out any law is to enforce it in the markets. It would require an army of bailiffs to enforce it on the coast. But the sale of small crahs, soft crabs, and herried crabs can easily be prevented, because it is the interest of the trade not to sell them. The small crahs do not pay the tradesman; the soft crabs and berried crabs injure his business by giving it a bad name. We conceive, therefore that there is no very serious difficulty in carrying out the law in the markets, though there is no possibility of enforcing it on the coasts. So far as London is concerned, the Second Warden of the Fishmongers' Company expressed to us the willingness of the Company to direct their officers to enforce the gauge in the Billingsgate Market. We recommend, therefore, that these officers should receive express authority from Parliament for the purpose. We have very little doubt that the civic authorities in the other large markets will assist in the same way. The law, therefore, should, for the above reasons, be a law of sale and not a law of capture.

In expressing this conclusion, we have not overlooked the very important evidence which we received towards the close of our inquiry at Birningham. Birmingham is the great fish market of central England. Fish of all kinds are sent to Birningham from every part of the United Kingdom, and are distributed from Birningham, not merely in the Black Country and its immediate neighbourhood, but in Hereford, Abertystwith, and

^{*} Appendix to Report, Evidence, page 80.

other far distant places. The salesmen at Birmingham are unanimously in favour of a law for the protection of undersized crahs and lohsters, and for the prevention of the sale of soft crahs and herried crahs; though they are also unanimously of opinion that such a law ought to be enforced, not in the markets, but on the coasts. Inspectors, in their judgment, ought to be appointed by the Government, who would receive information that undersized fish were being sent from some particular fishing station, who could then go down and inspect the fishermen's harrels, and prosecute the fishermen in whose barrels any illegal fish were found. But the conclusive answer to this recommendation appears to he, that, if Inspectors were stationed round the coast, their cost would be great. The game, in short, would not he worth the candle. If, on the other hand, one or two Inspectors were appointed to supervise the whole country, they would he powerless. The law might possibly he enforced on the spot where they happened to be; it would be openly disregarded in all other places.

We think, therefore, that, if the law which we have recommended is to be enforced at all, it must be enforced in the markets; and we do not think that the evidence of the Birmingham salesmen ought to affect the conclusion. The Birmingham salesmen assert that they receive a harrel of crahs to sell on commission from some part of the coast; that they sell it without opening it or "breaking hulk;" that the retail dealer buys it without examining it; that neither the salesman nor the retail dealer can possibly tell whether any undersized crahs or lohsters are in it or not; and that it would be impracticable for either the salesmen or fishmongers to examine the contents of each harrel which they sell or huy. But we do not think that much difficulty would arise from the circumstance. We asked a retail fishmonger, in Birmingham, what he would do if, on buying such a harrel of crabs, he found certain undersized crahs or lobsters among them, and his reply seems to us to settle the question. He told us that he would then return the fish to the salesman. In exactly the same way the salesman would return the fish to the fisherman; and the fishermen, therefore, would find that they received no money for the fish which they thus illegally consigned, and consequently would cease to consign them.

Wies, however, for from saying that the law should in no one be enforced aquisit the fishermen on the construct on the contamy, every fisherman who transmits undersized fish to a subseman offest them for sale, and ought to be liable to prosecution for his offence. We have no doubt that, in many cases, will be possible to prosecute kim. But we mainly rely, for entrying out the law, on the prohibition of the sale; and we believe that no other neares one be suggested for enforcing it so estimately

and economically.

The only exception to this rule should he in those cases where the Secretary of State may he advised, after an inquiry, to institute a local close season. A local law, so instituted, must neces-

sarily be carried out locally. But, though it may be difficult to enforce on the coast a law of gauge, there is no difficulty in enforcing on the coast a law of close sesson. It would require an officer in every hoat to see that no crab under a certain size was taken ; but it would not require an officer in every village to see that

Dogs at Hall Dogs a Sands.

no creels were being used. The coastguard could easily enforce a local close season; and, should local close seasons be in any case hereafter instituted, the coastguard might be instructed to enforce them. There are two other matters to which we must shortly refer :-1st, The fishermen at Hall Sands keep four or five Newfoundland dogs for the purpose of carrying lines from the shore to the hoats in rough weather. The surf is so heavy in certain winds, that

Trawling.

the only possible way of landing is for the boat to be drawn through the surf by the friends of the fishermen on shore, by means of the lines which the dogs take out to them. The fishermen think it a very great hardship that these dogs should be taxed. We promised to draw the attention of Her Majesty's Government to this matter, and we have accordingly noticed it here. 2nd. On almost every part of the coast we heard complaints from emb fishermen against the trawlers. The grabbers assert that the trawlers injure them in two ways: 1st, by destroying a great many berried crabs and soft crabs; 2nd, by sweeping away their tackle. The first complaint we hope we have sufficiently met by our previous recommendations that no berried

crabs and no soft crabs should be sold. The second we do not feel ourselves authorised to enter into in any detail. We think it, however, our duty to sav that the complaints against the inshore trawlers, for injuring both the crab and lobster and other fisheries, are so loud and so universal that, in our judgment, it is most desirable that they should be investigated. If they are just, they ought to be redressed; if they are unjust, the trawlers ought to have the opportunity of explaining their injustice. The recommendations which we have made in the preceding pages in many cases supplement the law which was passed for the control of the Norfolk crab and lobster fisheries in the Session of 1876.* In other respects they are inconsistent with that law. The Norfolk Act instituted a 7-inch gauge for lobsters. We have

The Norfolk Act of 1876.

recommended an 8-inch gauge. We thought it our duty, therefore, to so down to Norfolk and confer with the fishermen on the subject. We held a meeting, for the purpose, at Cromer, which * The following is a short analysis of the Norfolk Crab and Lobster Bisheries

I, It is tilegal to take or have in possession or offer for sale, under a negative of \$s. for each offence,

Lobsters from 25th June to 25th July inclusive.
 Lobsters under 7 inches in length, excluding the horns.
 Lobsters carrying spawn or ove at any time.

and for a distance of 3 miles from the shore,

^{4 .}Crabs under 44 inches across the back. 5. Crahs carrying spawn or ova at any time. II. The Act applies only to the sea coast of Norfolk, from Saithouse to Mundesley

was largely and influentially attended, and at which it was unanimously resolved to substitute the 8-inch for the 7-inch gauge for lobsters. The Norfolk Act must, therefore, under any circumstances, be amended in this respect. It is, however, evidently desirable that the whole country should be placed under one law; and we therefore recommend that the Norfolk Act should be repealed, and that any of its provisions (such as the institution of a local close season for lobsters) which it may be desirable to

retain, should be re-enacted in the new Act. It is satisfactory to us to be able to state that the local Norfolk Act of last Session has given considerable satisfaction both to the fishermen and generally in the neighbourhood. The gauge of 41 inches for crabs appears to be well adapted to the coast of

Norfolk, and the fishermen wish no alteration to be made in it. The purport of the whole is as follows:---I. It should be illegal to buy, sell, or offer or expose for sale.

or have in possession for sale-Lobsters under, either, 8 inches in length or under 4 inches

in the barrel, except in the county of Sussex. 2. Lobsters under 7 inches in length, in the county of Sussex.

3. Crabs under 5 inches across the back, except in the counties of Northumberland, Durham, York, Lincoln, Norfolk, and Suffolk.

4. Crabs under 41 inches across the back in those six

Crabs with berries under the apron. 6. Soft crabs.

II. The officers of the Fishmongers' Company should be expressly empowered to carry out the legislation in Billingsgate.

III. The Secretary of State should have power to institute, after inquiry, local close seasons for crabs and lobsters in any counties or parts of counties.

All of which we submit for the consideration and approval of the Secretary of State.

> We have the honour to be, Sir. Your obedient servants.

> > FRANK BUCKLAND. S WATPOLE

Recapitulation.

The Right Hon, the Secretary of State. Home Office.

REPORT

ON THE

CRAB AND LOBSTER FISHERIES

OF

SCOTLAND.

BY

FRANK BUCKLAND AND SPENCER WALPOLE, ESQRS.,
INSPECTORS OF SALMON PESSERBLES FOR ENGLAND AND WALES;
AND

ARCHIBALD YOUNG, ESQ.,
ADVOCATE,
COMMISSIONER OF SCOTCH SALMON FISHERIES.

REPORT

ON THE

CRAB AND LOBSTER FISHERIES

OF

SCOTLAND.

SIR. 1st March, 1877.

To decline to year instructions of the J303 September Ross of 1876, desiring not hold an inquiry into the state of the ends buying and lobster fisheries of Seodland, we have the honour to inform and lobster fisheries of Seodland, we have the honour to inform you that we visited the fishering places turning a for 150 witnesses, consisting principally of fish malesses and practical fishermens, with the view of accretainty the condition and requirements of the said fisheries — On the east coses, Billiburgh, Newhaven, Contract, Stochardow, Mudalla, Corv., Alerodens, Fetchead, St. Cembs, Inversilicity, Prassrbargh, Bastf, Burghead, Invernance, Will, Ackeepill, and Thumster, on the north costs and in the Orbory islands, Hunn, Timero, Kirlevall, and Stromness; and Christopillands, Prassrbargh, Stock, Stevens, and Stromness; and Harris, Porters, Christopil, and Stromness; and

The each fisheries of Southard are almost entirely confined to Pestion of the the east coast, and to the north coast from Duneaushy Head to issently Medical Lock British. The most productive lobster fisheries are to be inharised. found in the Orliney islands, in the inner and outer Habrides, and in the sea locks of the lobster creek on the vest coast; but they are not appreciated and searrely used for local con-

and in the sea locks of the western coast.* A good many crub, indeed, are caught in the lobter receise on the west coast; but they are not appreciated and scarcely used for local consumption, while they are so far from a market where they would meet with a ready sale that they do not stand the journey, and it does not therefore pay to send them.⁷ On the east coast,

^{*} The Scotch lebster fisheries produce altogether about \$00,000 lobsters minually, most of which are forwarded to the English markets.
† It is possible that increased facilities of transit may yet develop the erah fisheries of the west costs and islands of Scotland.

Evidence of drorease-

classes, and are largely exported to London and other markets to which there is ready and rapid access. There was a general agreement among the witnesses examined that both the crab and lobster fisheries have considerably fallen off, and that neither in numbers nor in size are the fish equal to

1. In crabs.

what they were 40, 30, 20, or even 10 years ago. First, as to the crab fisheries :- Mr. John Anderson, one of the principal fishmongers in Edinburgh, who has been 44 years in business, says :- "Crabs have decreased very much. The decrease " began fully 10 years ago, and is both in size and numbers. " They have decreased more than half." Mr. Joseph Johnson, of Montrose, the head of the greatest firm of fish merchants in Scotland, who has been acquainted with the crab and lobster fisheries from Cape Wrath to Montrose for more than 50 years. considers that "the crabs have diminished 50 per cent, in number." James Walker, fisherman, Gourdon:- "The crabs are cetting " very scarbe. They are less than one half of what they were " 36 years ago. During the last 20 years they have been falling off " gradually." George Buchan, fisherman, Buchanhayen, "thinks " they " (the crabs) "are falling off. . . . They have diminished " about one half." Mr. Stevens, fish curer, Bodham, "used to " go about as a boy with his father 25 years ago. Caught many " crabs then. Caught 72 crabs, full-grown, in one creel. There " were plenty of crabs at that time. They are much scarcer " now. Nobody at Bodham now fishes for crabs; it does not pay." James Brodie, of Cratown, "has been fishing for grabs for pay." " 30 years. There were 9 boats at Cratown 30 years ago; there " are S now. Thirty years ago boats used to carry 5 to 10 creels " for each man : now they have 40 to 50 betwixt two man. " They caught a good deal more with 10 to 12 creeks than they " do now with more than double that number." William Ritchie fisherman, Whitehills, thinks "there are fewer crabs than "when he began fishing." Mr. Adam Macdonald, Inverness, " used to deal largely in crabs. Since 1842 he has been pur-" chasing them for the purpose of sale. They are not nearly so " nlantiful now as they were in 1842," William Thomson, Thurso, " has been a crab and lobster fisherman for about 35 years. "There are a good many crabs all about the coast, from Loch " Erribol to Duncansby Head; but not a fourth of the number " are now taken that were got 35 years ago. There has been " a decrease also in size." Robert Miller, fisherman, North Berwick, "has fished for 20 years. . . When he first began "he used to get a creel full of crabs; now he only gets 9 " to 12 crabs in a creel. Has seen as many as 35 crabs in a " creel." Alexander Combie, Dunbar, "has fished for crabs for " the last 50 years. When he was a boy there were three for " every one now, and they were also larger. They have gradu-

" ally degenerated." Next, as to the lobster fisheries :- Mr. Anderson, Edinburch, In lobsteen. says :- "They" (the lobsters) "have diminished both in size " and number. The decrease began 20 to 25 years ago. They " have decreased one half in the last 20 years." Mr. James Muirhead, Edinburgh :- "Lobsters have decreased a great deal " in size, not so much in numbers." Mr. John Jamieson. Edinburgh :- "The lobsters have diminished both in size and quan-" tity." Mr. Joseph Johnson, fish merchant, Montrose, also speaks to a falling off in lobsters. Walter Noble, fisherman, Fraserburgh :- "Lobsters have fallen off very much. . . Twenty to " thirty years ago they used to catch 100, 70, or 80 in the " 24 hours. They now get a dozen to half a score in the 24 " hours." William Dunbar, Brawl Castle, Thurso:-"Lochs " Laxford and Erribol and the Kyles of Tongue are almost fished " out. They would not now yield anything like half of what " they used to yield." William Thomson, fisherman, Thurso:-" Lobsters are getting scarce. Four times as many were taken " 35 years ago as are taken now, yet there are now four times " as many boats fishing. Thirty-five years ago 21d. and 3d. " was the price of a marketable lobster; now 1s. 6d. is " paid." David Gunn, fish merchant, Wick : - "From about " 1860 there has been a decrease in the supply " of lobsters. Alexander Mitchell, chief constable, Caithness-shire :-- "There " is no doubt that the supply of lobsters has been falling off." Robert Brough, fish merchant, Kirkwall, "thinks that lobsters are " scarcer, . . . Two men 20 or 30 years ago would take 1,200 to " 1,400 lobsters in a fishing season. Now they would not get " above 200 lobsters." Donald Macdonald, steamboat agent, Portree, 12 years supercargo in the steamer "Clvdesdale":--"The " lobsters now have fallen off so much in size that twice the " number are put in a box that there used to be." John Robertson, fish merchant, Portree:--"The lobsters are not so plentiful as " they were in 1862, but there is more difference in the size than " in the number. The lobsters are measured by the barrel gauge, " and lobsters below 41 inches, or wanting a claw, count two " for one. There are a larger proportion of lobsters under gauge " than there used to be. About 20 per cent. of the lobsters " were under gauge in 1862, and about 50 per cent. are so now." Kenneth Smith, fish merchant, Stornoway :- "There are more " boats fishing than there were, and each boat has more creeks. " The boats ought therefore to get more than they used to do: " and as they do not, lobsters cannot be so plentiful as they were." Norman McLeod, junior, general dealer and fisherman, Tarbert, Harris:-" Mr. Maclachian, of Glasgow, was the first man who " started the fishing for lobsters in East Loch Tarbert. He sent a " smack down about 22 years ago. The men fished for him in the " winter season and spring. The fishery was very successful. " There were not so many boats-not a fourth part so many-as " there are now. They fished with creels. The few boats started " at that time caught as many lobsters as the 44 boats catch now. " Thinks, therefore, indeed is sure, that the lobsters are falling off " in numbers in East Loch Tarbert. The lobsters are also falling " off in size. They have not time to come to maturity. Thinks " the fishing gets worse every year. The proof of this is that " the fishermen have to leave the Harris coast for the Lews. " Skye, and North and South Uist." William Macqueed, agent at Turbert for Mr. Maclachlan :- "One dozen lobsters 20 years " ago would weigh as heavy as two or three dozen now." Roderick McKay, a lobster fisherman of Tarbert of 40 years' experience; _"There are not so many lobsters in any place as there were " 40 years ago. . . . The lobsters are also smaller." Mr. Maclean, general merchant, Tobermory:—"The lobsters have de-" creased in average size. The two-for-one lobsters form nearly " balf the whole take now." David Campbell, fish merchant Salen, "has been acquainted with the lobster fisheries of Mull and the immediately adjacent locks and islands for more than " 30 years, since 1844. Lobsters have diminished both in number " and size since he began business." William Sproat, Procurator " Fiscal, Tobermory, "has been 30 years resident in Tobermory, " during which time he has paid considerable attention to the " lobster fisheries around Mull and the neighbouring islands. " Lobsters are not nearly as plentiful as formerly, and on an " average not above half the size. Places that were productive fishing grounds when he first came to Mull are now almost exhausted." Captain Swinhurne, R.N., "is proprietor of Eilean Shona and of the island of Muck, in the county of " Inverness. Has paid much attention to the subject of the " lobster fisheries and prosecuted them for three years (from " 1856 to 1859) in the neighbourhood of Eilean Shona and " Ardnamurchan. Thinks that lobsters have fallen off both " in number and size." Mr. Hugh Maclachlan, fish merchant, Glasgow, one of the chief fish salesmen in Scotland, who has been 30 years engaged in the lobster trade, says :- " Lobsters " have decreased greatly in size as well as in number. If there " were as many lohsters in the sea as there used to be the " increased number of boats and creeks should catch four times " as many as they do."

Contrary evidence. It is then clear that a very large majority of the witnesses, with special means of arriving at a just conclusion on the majorie, are satisfied that the early and lobster inherites of indicate the control of the property o

us that "there has been no falling off" since 1827. George Bruce, a fisherman at Peterhead, thought that "crabs have not " diminished either in size or number." Peter Sinclair, a fisherman of Stromness, believes that the ground on which he fishes produces as many lobsters as it did 30 years ago. Murdo Morrison, of Bernera, similarly "believes that there are as many " lobsters caught now" on the Atlantic coast of the Hebrides " as there were 30 years ago." Kenneth Smith, a fish merchant in Stornoway, "obtains as many lobsters as formerly." James McSween, a fisherman of Stornoway, "has fished for lobsters for " 15 years : cets as many now as he got 15 years ago." There is, therefore, a minority among the witnesses who disbelieve in the alleged decay of the fisheries. We are ourselves of opinion that the crab fisheries on the east coast of Scotland are almost universally deteriorating. We are also of opinion that the lobster fisheries, as a whole, are falling off both in the size and number of fish caught. But a distinction must be drawn between the lobster fisheries in sheltered places and the lobster fisheries farther from the shore or exposed to the Atlantic. We have no doubt whatever that the patches of lobster ground, which are sheltered or partly sheltered by the adjacent coast, and where almost continuous fishing is nossible, are being rapidly fished out; but there are large tracts of almost illimitable extent on the Atlantic shores of the Orkneys and the Hebrides where the evidence of deterioration is much less distinct. The fishermen in these places, prevented by storms from continuous fishing, are compelled to observe a storm-imposed close season. Nature, in fact, makes a close time of her own.

In those places where it was acknowledged that the fishery Decrease due was falling off the decline was almost unanimously attributed to over-fishing. to one of the three following causes, viz., over fishing, eatching immature fish, and fishing at inappropriate periods of the year. For instance, Mr. Joseph Johnson, of Montrose, attributes the falling off to over fishing and the want of a close season. Mr. William Ritchie, of Whitehills, compares catching crabs in June, July, and August to cutting green corn. William Thomson, of Thurso, states that lobsters are fished all the year round, and thinks that over-fishing is the cause of the diminution. Mr. John Jamieson, of Edinburgh, attributes the decrease in lobsters to over-fishing and fishing all the year round. Walter Noble. fisherman, Fraserburgh, thinks that lobsters are too much fished in summer and winter. David Gunn, fishmerchant. Wick, attributes the decrease to over-fishing. Alexander Mitchell, chief constable of Caithness, Robert Brough, fish merchant, Kirkwall, John Robertson, fish merchant, Portice, and My. Maclachlan of Glasgow, are all of the same opinion.

^{*} It is, perhaps, worth observing that, when the herring season commences, the more active men leave the crabs and lobsters, and go to the herring fishing.

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Effect of creeks.

and gauge.

Over-fishing has, indeed, been stimulated during the last few years by the invention of a much more efficacious mode of catching crabs and lobsters. 30 years ago, the fishermen in many places were accustomed to fish with "rings" alone. They now almost universally use "creels." The ring was an iron ring with a small net attached to it in the shape of a purse. The ring was baited and let down to the bottom of the sea. The fisherman constantly examined the ring to see if there were any fish on it, and the pressure of the water on the ring, while it was being drawn up for examination, prevented any lobsters or crabs which happened to have been attracted by the bait, from escaping. The ring, therefore, required the constant attention of the fishermen, and a boat could not use more rings than the fishermen connected with it could constantly examine. A creel on the contrary, is a pot made of wickerwork or of a wicker frame covered with netting. The crabs and lobsters enter it through a hole or pipe 41 to 5 inches in diameter and are found in it when the pots are examined. The creel, therefore, is a fixed engine, unattended by the fishermen and only periodically examined, usually towards dawn, by its owner. The substitution, therefore, of greels for rings enabled each fisherman to work more trans than he could before, with very much less labour to himself, and also to work them in much deeper water. It replaced a comparatively inefficient engine with a much more efficient one.

The increase of fishing, which we have thus noticed, and which has led to the introduction of more efficient means of capture, has been of course stimulated by the increased facilities of transit, which railways and steamboats have of late years offered at

attorned. We have thus summarised the evidence which we have received relative to the increase or decrease of the crab and lobater fisheries of Scotiand; and we have stated the causes to which the witnesses were agreed in attributing the decrease. The remedies which they suggested were the institution of a

close season and the fixing of a gauge.

Close season
In the case of crabs, nearly 30 witner

In the case of crabs, nearly 30 witnesses advocate the combination of a close season and a gauge, whilst only seven are opposed to a close time, and only four to a gauge. 45 witnesses are in fayour of the union of a close time and gauge for lobsters, and

only five object to a close time.*

A close time alone would prevent the capture of the fish when
they are out of condition, but it would do nothing to prevent the

[&]quot;The passon that so many more witnesses are found supporting the combination of a closs time and a gauge in the case of obstrate than in the case of credits, that, all assumd the counts and among the initials, evidence was given about lobertey, whereas the lobert rishermen in the vertex leistant only take crake by accliding it there is no matrice for them and sectorly any local consumption, except at Obsta during the left of the contraction of

taking of too small crabs and lobsters during the fishing season. A gauge alone would put a stop to the taking of immature and undersized fish, but it would be no test of the condition of the

fish canoht. But when we consult the evidence with the view of ascertaining over what period of the year the close time shall extend, and what shall be the eize of the gauge, we find a great diversity of opinion. Taking crabs in the first place, we find nine different gauges suggested, varying from 6 to 3 inches measured across the longer diameter of the shell,* while no fewer than 27 different periods of close time are proposed. The most popular gauge is the 5-inch which has 20 supporters; and next to it are the 43-inch which has 10, and the 51 inch which has five. The close time during June, July, and August has eight advocates; that during November, December, and January, has five; and that from 1st August to 1st April has four. At least as great a diversity of opinion exists as to the most appropriate close time, and the most suitable gauge, for lobsters. But with respect to the gauge, there are two sizes which have far more supporters than any of the othersin the first place, the 8-inch gauge, which has 30 supporters, and in the second place the 9-inch gauge, which has 25. As many as 23 different periods of close time for lobsters were brought under our notice in the course of our inquiry, some witnesses suggesting only one month, while others wished the period prolonged to seven months. But among all the different periods suggested, one had decidedly a strong majority of witnesses in its favour—the period, namely, from 1st June to 1st September, which had 12 supporters; whilst the next most popular period, from 1st May to 1st September, had only six. It will be observed, that both these periods of close time include the summer months and the first month of antumn. But some witnesses objected to both these periods on the ground that the fishing in the stormy seas around the Orkney Islands, and in the still more valuable and as yet imperfectly developed lobster fisheries on the Atlantic shores of the Lews, Harris, and the long stretch of islands extending from the Sound of Harris to Barra Head, can only be successfully prosecuted in the summer months, and that, if these months were closed the fisheries would be practically stopped altogether. It is, perhaps, a sufficient answer to this objection that an overwhelming majority of the witnesses who speak of the lobster fisheries in these stormy seas are in favour of a close time during the summer months. For example, five out of the seven witnesses examined at Wick, who gave evidence with regard to the lobster fisheries about the exposed coast near Wick, and in the rapid and tempestuous Pentland Firth, supported such a close time. Donald Thomson, a fisherman of 35 years' experience of the fisheries between the Ord of Caithness and Cape Wrath, is in favour of a close time from 15th June to

^{*} The ganges suggested are as follows: -- 6-ins., 5-ins., 5-ins., 42-ins., 41-ins., 41-ins., 4-ins., 5-ins., 5-ins., 5-ins., 62.

lat March; John Bain, another fabrerman, supports a close season from 15th June to 31st January; Finley McLesan, a third fisherman of 40 years' experience on both sides of the Morray Firth, and at the Lund's Ead, proposes to close June, July, August, and September; Dwid Gunn, fabr merchant, Wick, would shut June, July, and August; and John Mackie, oditor of the "Northern Engin," is in flowour of the same close time as a Donald Thomson,

-from 15th June to 1st March. We found a similar preponderance of evidence in favour of a close time during the summer and autumn months at Kirkwall and Stromness, the chief towns of the Orkney Isles. At Kirkwall, five witnesses were examined, four of whom support a summer and autumn close time, and the fifth advocates a close time, without eaving what it should be. Robert Brough, fish merchant, Kirkwall, would close July, August, September, and October; Donald Neil, fisherman, Kirkwall, " thinks the close season should commence on 1st July, and " should last two or three months"; Joseph Murrell, fishourer and fish salesman, Stromness, would have the close season commence on 16th July and close on 1st December; Robert Hercus, fisherman, Kirkwall, "thinks July. August. September. " and October, would be a sufficient close season": and John Hercus would have the close season "commence in July, and end " in October." At Stromness, Samuel Flett, fisherman, is in favour of a close time from 1st August to 1st January; and Peter Sinclair and William Stanger, both fishermen, and the only other witnesses examined would have a close season during June, July, August, and September.

Even in Stornoway, the capital of the Lews, the largest and most populous of the Hebrides, whose western coasts are exposed to the full fury of the Atlantic gales, the great majority of the witnesses are of the same opinion. Murdo Morrison, Island of Bernera, "is in favour of a close season in June and July." George Macaulay, Island of Bernera, says: "The fishing season " now commences on the 1st August, and ends in the following " June. The lobsters are not fished in June and July, because the " men cannot get enough for them to make it worth their while, " and the buyers won't buy because the lobsters won't stand the " carriage. . . . Never fishes in June or July now. These months " are practically a close season. The coast is very stormy, and " the fishermen would be stopped eight to nine days a month-" throughout the year." Kenneth Smith, fish merchant, Stornoway, " is in favour of a close season in May, June, July, and " Angust." Archibald Munro, manager at Stornoway for Mr. Maclachlan, of Glasgow, " is in favour of a close time for lobsters. It " should commence on 1st May and terminate on 30th September." John McSween, fisherman, Stornoway, " would have a close season " commencing 1st May and ending 30th September." John Macdonald, fisherman, Stornoway, "is in favour of a close season, com-" mencing 1st April and ending 30th September," and so is Angus Macleod, another Stornoway fisherman. Then, at Tarbert, in the island of Harris, we find the Scarpa fishermen voluntarily instituting and observing a close time from May to December with the hest effects; and if we look at the evidence given at Tarbert, we find that it corroborates that previously cited in favour of the propriety of closing the summer and part of the autumn months. Norman Macleod, jun., general dealer and fisherman, Tarbert. " is " in favour of a six months' close season. Would commence fish-" ing at the end of November and end at the beginning of May." William McQueed, for 25 years buyer for Mr. Maclachlan, of Glasgow, "is in favour of a close season in May, June, July, " and August." Robert McKay, fisherman and fish salesman. Tarbert: "There are only a few fishermen fishing lobsters in " the summer time. Sends lobsters away himself in summer " time. Sends them to London and Manchester. Many die : " sometimes they all die. This is a great waste, and ought to be " stopped. Would like to see it stopped. . . . Is in favour of a " close season, commencing on the 12th May, and would resume "fishing on the 1st September." David Macdonald, fisherman : -"The Scarpa men begin fishing in November and stop at the " beginning of May. . . . The Scarpa men are all against fishing " in summer and harvest time, and he agrees with them." Malcolm Kare, fisherman, West Loch Tarbert :- "There were 30 times " more lobsters when he began fishing 46 years ago than there " were when he left off 12 years ago. Attributes decrease " to summer fishing." Ewen Macdonald and Donald Munro, fishermen, Tarbert, are both "in favour of a close season, com-" mencing 1st May and ending 31st October."

Coming now to Mull, a very important member of the Hehridean group of islands, from which at least 40,000 lohsters are annually exported, we find additional evidence in favour of a close time for lobsters, including the summer months. Duncan Camphell, fish merchant, Salon, Mull, says:-" The close time " should be from 1st June to 1st September." Archibald Maclean, general merchant, Tobermory, "is in favour of a close " time for lobsters from May to September, inclusive." David Campbell, fish merchant, Salen, "would restrict the close time to " July and August." David Sproat, Procurator Fiscal, Tobermory :- "The close time should be that of the old Act of "George II., from 1st June to 1st Scutember. Neil Macquarrie, fish merchant, Tobermory:-" If there is to be a close time " would restrict it to the months of July and August." Lastly, Mr. Hugh Maclachlan, fish merchant, Glasgow, who has probably had the longest experience in the lobster trade of any man in Scotland, "Would have the fishing season to extend from "Ist October to 1st May, and would have the rest of the year " close time. . . . Is of opinion that the close time suggested would " not interfere with the productiveness of the fishings on the " west coast of the Long Island, and of the other Outer Hebrides, " because the lobsters caught in these places during the warm "months won't carry to market, the localities are so remote.
"They won't keep. There is a great loss, even in the case of
"the lobsters caught on the Atlantic seaboard of these islauds
"Advisorthe letter helf of May in their transit to the English

" the lobsters caught on the Atlantic seasons of the English
" during the latter half of May, in their transit to the English
" markets."

Close time under Act of

It is worth observing that the three months of June, July, and August, which the majority of witnesses thus indicate as the best close time for both orans and lobsters, are precisely the months which the Act 9 Geo. II. c. 33. sec. 4, enacts as the close time for lobsters.

But there seems to be a general impression that the statutory closs time for Soutch lobsters provided by the 4th section of this Act, though never expressly repealed, has fallen into desactated and is no longer binding owing to the long period of contrary nage. It may be worth while examining whether this le really the case or no. The greater portion of this Act was expressly repealed by the Statute Law Revision Act, 1967, but the 4th

usage. It may be worth white examining wretter into see easily the case or no. The greater portion of this Act was expressly repealed by the Statute Law Revision Act, 1867, thu the 4th section was not repealed in the continuation of the section was not repealed as the continuation of the section was not repealed as the section was not repealed as the section was not repealed as the section as the section of the section of

been carefully considered by the promoters of the Act;—And
whereas the destroying the fry or spawn of any fish is highly
prejudicial, especially such fish as do not wander, but keep
about the coasts; and whereas the principal time for the
manyming of lobsters is from the heginning of June to the lat

" spawning of lobsters is from the heginning of June to the 1st " of September, in which three months the lobsters crawl close " to the shore to leave their spawn in the chinks of the rocks."

" and as much under the influence of the sun as possible: Be it therefore enacted, by the authority aforesaid, that from and

" after the 1st day of June 1736, no fisherman, or other person " or persons whatever, shall, with trunks, hoop nets, or any state way take 1811 or destroy any lobetars on the sea coast of

"other way, take, kill, or destroy any lobsters on the sea coast of
"that part of Great Britain called Scotland, from the 1st day
"of June to the 1st day of September yearly, under the penalty

" of 5l. sterling for each offence, to he recovered by any person
" who shall inform and sue for the same upon a summary com-

"plaint before any two or more of his Majesty's justices of the "peace of the shire on the coast where any such offence shall "happen to be committed."

According to the law of Scotland, a Scots Act, that is na Act passed by the Praifment of Scotland; previously to the Union of England and Scotland, may coase to be binding by a long course of contrary uses. No statict, however, can be shoppeded by more non-usage or neglect of its provisions for any length of time. There must be distinct and positive contrary usage. But the statets in question is in no respects a Scotland. It was possed to the contrary usage to the contrary to the contrary

so. The former, in his treaties on the Law of Scotland, relating to Rights of Fishing a say (pp. 76, 71), "The Act 9 Geo, II."

a. Sk. see, 'jimpe and 'pp. 76, 170, "The Act 9 Geo, II."

a. Sk. see, 'jimpe and 'pp. 76, 170, "The Act 9 Geo, II."

a. Sk. see, 'jimpe and 'pp. 76, 170, "The Scotland on Milysels of the Scotland on Milysels of the Scotland of the Act 9 Geo, II."

the Milysels of the Scotland of the Scotland of the Scotland of the Scotland of the Act 9 Geo, II.

for lockets from Lat June to 1k September, 9 Geo, II.

" c. 33. sec. 4." But even assuming that the statutory close time applicable to Scotch lobsters might be abrogated by a long course of contrary usage, there is scarcely adequate proof in the evidence laid before us that there has been a sufficient course of such contrary usage. It is true that the great majority of witnesses examined had never observed, had never even heard of, the statute; and the contrary usage of fishing all the year round, instead of observing the close time seemed almost universal. But, on the other hand, there was clear evidence of the Act having been observed and enforced. Joseph Johnson, fish-merchant. Montrose, "recol-" lects 30 years ago that the Act 9 Geo. II. c. 33. sec. 4, providing " a close season, was strictly enforced. Has heard men say it " was close season and you could get no lobsters." John Robertson, fish-merchant, Portree, "is aware of 9 Geo. II. c. 33. soc. 4. " instituting a close season for lobsters. Most of the fishermen " are aware of it. It was once enforced or threatened to be " enforced in the Lews." Captain Swinburne, of Eilean Shona, states that "while engaged in lobster fishing, he himself always " observed the close time . . . provided by the Act." There is, therefore, evidence that within the memory of living men the Act has been observed and enforced; and in the face of this, it can scarcely be maintained that there has been sufficient contrary

usage to abrogate it.

But, if it is doubtful whether the Act belongs to the class of Rut, if it is doubtful whether the Act belongs to the class of Acts which may be abrogated by a long course of contant yusage, and if, even assuming it between the class, there is good evidence, and the containing it is naturally follows that, before our recommendation of a gauge those for loaders could be given effect o, with a power to the Secretary of State to institute, after inquiry, local close assens, it would be expedient to repeal section of with a power covering the penalty turn in the containing the power covering the penalty turn in the Act, especially after attention the other could be act to the covering the penalty turn in the Act, especially after attention the research industry directed to it during the course of the research industry.

present inquiry.

The evidence, then, which we had the advantage of receiving General results

Scotland, pointed decisively, i.s., to the fixing of a gauge of evidence.

both for crubs and lobsters; and, 2nd, to the institution of a close

both for crabs and lobsters; and, 2nd, to the institution of a consession for lobsters, embracing the summer months. It pointed also, though less distinctly, to the institution of some close

enforcing the

Machinery for season for crabs. But the witnesses were much less unanimous as to the best and most effectual means of enforcing the legislation. which they were agreed in recommending. Some witnesses gnocested that the close time and gauge might be enforced by the officers of the White Herring Fishery Board, or the officers of the Coast Guard or Customs, and a few advocated the appointment of special fishery officers for the purpose. The officers of the White Herring Fishery Board, of the Coast Guard, and of the Customs have however, other duties to perform; and besides, at some of the most important fishing stations, none of them are to be found. In the 56 islands, for example, constituting the Orkney group, there are three policemen and one fishery officer; yet the annual export of lobsters from Orkney is not much under 80,000. The same remark would apply to the island of Lews and Harris, which annually sends away a similar number of lobsters, and to Benbecula, North Uist, and Barra, which are likewise most productive lobster grounds.

Nor is the suggestion that special fishery officers should be appointed for the purpose of enforcing the close time and gauge more practicable. The question at once arises, Who is to pay them? There is no right of private property in crabs and lobsters as in salmon fisheries, and, therefore, there is no owner whose interest it is to watch them and pay for their protection. It is certain also that the fish merchants and fishermen would object to pay for what some of them might consider an undue interference with their rights, and it would be inexpedient to charge the public revenue with the cost of protecting fisheries which contribute nothing to its support. It is very difficult therefore, to devise effectual machinery for enforcing locally any regulations which may be made. It would not indeed be very difficult to enforce a close season on the coasts. A fisherman cannot go out fishing for erabs and lobsters without attracting the attention of his neighbours. The machinery which he uses is cumbrous. He sets his creels in places where any fisherman can see the corks or bladders, and he therefore subjects himself to a prosecution by any one who may be anxious to enforce the law. But it would be almost imnossible to enforce a gauge locally. The fisherman who took any under-sized crabs or lobsters would naturally place them in the bottom of his basket, and as it would be the duty of no one to search the basket the offence would not be detected. But, though there is a difficulty in enforcing a gauge on the coasts, there can be no difficulty in enforcing it in the markets. It is the interest of the fishmonger to refuse under-sized fish, as the smaller fish do not pay him; and there can be very little doubt that, if it were made illegal to sell small crabs and lobsters, the chief fishmongers in the country would decline to receive them, and the main induce-

ment for the fishermen to take them would be removed. It is obvious, however, that neither a close season nor a gauge can be enforced in the markets, unless the same close season and the same gauge are universally, or nearly universally applicable. If it be made illegal to sell small crabs and lobsters in London and Edinburgh, or to sell them in June, July, and August, it must be illegal to sell them from whatever source they may be obtained. There is, we. believe no difficulty whatever in enacting that no crab under five inches in greatest length, and no lobster under either eight inches in length, or four inches in the barrel, shall be sold. That law will suit the whole of Scotland, and we understand that it will also suit, with exceptions which have been discussed by two of us elsewhere, the whole of England. But there is much more difficulty in enforcing a close season in the markets. There is no doubt whatever that a close season for lobsters from 1st June to 1st September would be quite suitable to Scotland. But the great supply of lobsters for the markets arrives not only from Scotland, but from Norway, France, Ireland, and the south-west of England. The close season which would suit Scotland would certainly not suit England, Norway, and France, and therefore, if a close season be enforced at all, it must be enforced on the coasts and not in the markets. The difficulty with crabs is even greater. It is by no means certain that the same close season for crabs is desirable throughout Scotland, or that any close season at all is necessary on the north-west coasts. In lieu, therefore, of suggesting any general close season for either crabs or lobsters we think it better that the Secretary of State should have power to prescribe, after inquiry by some competent person, local close seasons adapted to the requirements of each district. Such a course will, we believe, prove more beneficial to the fisheries than the enactment of a uniform close season for the entire country.

There is another matter which we believe requires attention. Soft or Harbit The fishermen who fish in the autumn months are in the habit of case. destroying large numbers of "soft" or "light" crabs. These crabs, which have only recently cast their shells, are worthless as food. We propose that it should be illegal to expose these crabs for sale. We should have been very glad to have been able to recommend that they should not be taken, and we exceedingly regret that we cannot do so, for two reasons. First, because, as we have already stated, there is no available machinery for enforcing a law of this nature on the coast, and we are unable to see how any efficient machinery for the purpose can be provided except at very great cost; and, Second, because these crabs are used as bait. The only other practicable remedy we believe to consist in the institution of local close seasons applicable to those places where, and times when, soft or light embs are wantonly destroyed.

It is alleged that, where nusseds are scarce and dear, crabs form the best bait for cod, haddocks, and other this cajtured by means of the long 'fines; and that it would, therefore, be a great hardship to enact any statutory provision preventing the use of the small and soft erbs which it is at present the custom to break up and use for bait. A glance at the evidence will show the nature of this objection as well as the extent to whale

the crabs unfit for human food are broken up and used as bait The matter was first prominently brought under our notice at Aberdeen, by Mr. William Paul, who stated that be "has " often in November himself seen great baskets full of crabs, all " of which were unfit for buman food. These crabs are used as " bait. The breast is pulled off and the back is used. The crab " is the best bait, far better than mussels. A line of 40 score " books is baited, one balf with crabs (if they can be got) and one " half with mussels or bullock's liver." George Bruce, fisherman, Peterhead :- "Uses small crabs for bait in May and June. " They are put on hooks to catch cod. During these months " small crabs are valuable for bait. . . . Few partans" (i.e. large erabs) "are used as bait. If it were made illegal to take these " small crabs as bait it would be a little inconvenience to the fisher-" men." Alexander Leper, fisherman, Muchalls : - "In the winter " crabs are used as bait. . . . Every third hook on the long " lines is baited with crabs, while two-thirds of the hooks are " baited with mussels and bullock's liver." James Watt, fisherman, Gardenstown-" Would never consent to a law that would " prevent fishermen taking crabs for bait." Andrew Wilson, fisherman, Macduff :- "They require a good many crabs for bait. " The very smallest are a useful bait. . . . Would have no gauge " for crabs, because it would prevent the small ones being used as " bait." William Davidson, fisherman :-- "He must have crabs " of all sizes for bait for taking cod; mussels are no good. The " cod come in seeking the crabs when they are shelling their " shells. The bait be uses at that time is soft crabe." John Strachan, fisherman, Inverallochy:-"It would be unjust to " deprive the fishermen of the use of them " (the crabs) "as bait. " . . . Would greatly object to any law about crabs if the law " proposed made it illegal to use crabs for bait during the " months of July, August, and September, because the crabs " then are the best bait for cod. If a law were made for pro-" hibiting the use of crabs for bait it would be broken, especially " in the case of old people, who then would be obliged to break " the law in order to get a living." Finlay McLean, fisherman, Wick :- "A great many crabs are broken up for bait in the " course of the year. It would be a great hardship to prevent " the crabs being used for bait. There are six families in one " village in Sinclair's Bay who live entirely by using crabs for " bait."

"bait." The above affords sufficient proof of the use of soft and undersized crabs for bait in certain parts of Sootland, and also shows that there are a good many persons who think that the are as good many persons who think that the destroy that the destroy that the same than the crabs and lobsters, which admittedly takes place in certain localities on the east coast; is not only excussable, but right and necessary, because it supplies a portion of the bait recurred for the long lines.

On the other band, several witnesses were of a different opinion. George Wood, Johns Haven, says he "has broken up " crabs for bait when bait was scarce. If it were made illegal " to take small crabs, wouldn't break them up for bait." Mr. Paul, Aberdeen :- "Tbinks that the wanton destruction of crabs " unfit for food is the cause of scarcity. . . . Thinks that a con-" tinuance of this improvident mode of fishing will lead to " further evil . . . The great object of the fishermen is to get " crabs for bait. Crabs are the most successful bait. . . . Other " bait is always available. The provision of other bait would " be more expensive, but the evil would not be comparable with " the evil done to the crab fisheries. . . . Taking crabs out of season " is almost entirely due to taking crabs for bait. . . . Does not " think that the fish caught with crabs as bait compensate the " consumer for the crabs that arc destroyed." Alex. Leper. fisherman, Mucballs :- "If crabs were prohibited as bait, could get other " bait for the long lines." Walter Noble, fisherman, Fraserburch : -"Partans are very good bait . . . There is plenty of bait at this "time of the year (October). Crabs are easiest managed; they should not be used for bait." William Buchan, fisherman. Fraserburgb :- "Crabs should not be allowed to be used for bait. The "fishermen could get other bait." Robert Miller, fisherman, North Berwick: —"The cause of the falling off is the use of " small crabs as bait for the lines. All the fishers use lines from " April to June." James Gullan, fisherman, North Berwick :---" A great many partans are used for bait for baddock and " whiting, . . . Crabs are only used on every tenth hook. If a " law affecting all alike were made that no small partans should " be used for bait, he would not object to it, and he should think

" the other fishermen would agree to it." There is, then, much diversity of opinion among the fishermen of Scotland as to the expediency or inexpediency of using crabs for beit. Without expressing any opinion on the propriety of the practice, we may repeat that we cannot recommend any lecislative interference with its continuance, because we are entirfied that if such a law were made it would be impossible to enforce it. The soft crab would be broken up out at sea, and no one would be able to ascertain whether it was broken up or not. The only possible method of interfering with the practice is for the Secretary of State to institute a local close season, in which no creeks or other engines whatever may be used, and in which. therefore, scarcely any crabs would be caught. It would nerhans be justifiable to institute such a close season during the months of October and November, when the soft crabs are chiefly used for bait on the Aberdeenshire coast, where the loudest complaints were made against the practice, and on the coasts of Haddingtonshire, where soft or light crabs are wantonly destroyed in these months.

One other recommendation which has been made to us requires Berried sales to be noticed. It has been suggested to us that the sale of sale keletric berried lobstars and berried crabs should be prohibited. So far

petried topsorts and portion crass section 1

as berried lobsters are concerned, we are unable to endorse this proposal. In the first place, if it were made illegal to take berried lobsters, it would not in many cases pay the fishermen to nursue the lobster fishery. In the next place, the lobster when berried is in the very best possible condition as food, and it would be as illogical, therefore, to prohibit its capture as to prohibit the taking of herrings with roe in them. But the case of berried crabs is different. The berried lobster is the most valuable of lobsters; a berried crab is almost worthless. It would be impolitic to enact that no berried lobster should be sold, but there would be no difficulty in enacting that no berried crab should be sold or exposed for sale.

Recapitulation,

In terminating this Report we desire to state the conclusions at which we have arrived with regard to the crab and lobster fisheries in Scotland. These are :-

First. That the said fisheries have on the whole fallen off during the last 30 years, and that there is every probability that they will continue to decrease unless some steps are taken to restore them. Second. That the causes of this decrease are twofold, first, over-

fishing; and, second, taking undersized crabs and lobsters. Third. We therefore recommend :-

I. It should be illegal to buy, sell, or offer or expose for sale,

or have in possession for sale :--(1.) Lobsters under either 8 inches in total length or 4 inches in the barrel.

(2.) Crabs under 5 inches across the greatest length of the back.

(3.) Soft crabs.

(4.) Crabs with berries under the apron. II. The Secretary of State should have power to institute,

after inquiry, local close seasons for crabs and lobsters in any counties or parts of counties.

All of which we submit for the consideration of the Secretary of State.

> We have the honour to be, Sir.

Your obedient servants. FRANK BUCKLAND. S. WALPOLE.

ARCHIBALD YOUNG. The Right Hon, the Secretary of State, Home Office.

REPORT

ON THE

CRAB AND LOBSTER FISHERIES

OF

TRELAND.

w

J. ALOYSIUS BLAKE, Esq., MAJOR JOSEPH HAYES, and THOMAS F. BRADY, Esq., IMPRICIONS OF BRIEF PRESERVES.

REPORT

ON THE

CRAB AND LOBSTER FISHERIES

an

IRELAND.

Office of Irish Fisheries,

12. Ely Place, Dublin, 31st January 1877. STR. WE have now the honour to submit for the infor-

mation of His Grace the Lord Lieutenant our report upon the Orah and Lobster Fisheries of this country, having just concluded the inquiries made around the coast in accordance with the instructions of His Grace as conveyed in your letter of the 23rd August last.

Our investigations were confined to the following points.

being the same as ruled the gentlemen appointed to conduct similar inquiries in England and Scotland, viz.:-1st. "Whether the Crab and Lobster Fisheries are increasing

or decreasing. 2nd. "If they have decreased, the cause of such decrease."

3rd. The measures which it may be expedient to propose for the purpose of arresting any further decrease. Appended will be found a list of the places where we held

official inquiries, and the tenor of the evidence received at each. hesides which we investigated the question at various other

places when travelling from one point to another. Generally we found that in most places there had been no

diminution in the supply of lobsters.

In the localities where it was reported that a decrease had taken place in the supply, we found it had arisen from the following causes :--

1st. Along the north and east coasts, because great facilities exist for ready transit to the English and Scotch markets by steamers plying across Channel, leading to over-fishing.

2nd. That in other places, from some of the fishermen having

obtained different employment, they had abandoned fishing altogether. 3rd. From the fishermen capturing everything in the shape

of a lobster that they could take, down even to 3 or 4 inches in length.

It would appear that the demand for lobsters is likely to increase as greater facilities arise from time to time, by railway and steam extension, of getting them to markets where they were formerly almost unknown, and that consequently increased inducements will be held out for capturing them of every size as it appears that even the smallest meets with ready sale. We are strongly of opinion that in order to maintain those fisheries where no diminution has taken place in their present productiveness, and to restore those where production is said to have diminished from over-fishing, that certain restrictions should be made respecting the smallest size that should be permitted to be captured.

As regards close season: legislation on this point does not appear to be of importance, as during the winter months the fishing ceases altogether; practically it may be said that the lobster fishing season in Ireland is between 1st May and 30th September, although in a few places the fishing begins some-

what earlier and continues later. With regard to the pea, or berried lobster, the evidence tended to show that they are to be had at all times of the year, although perhaps in greater abundance in the months of July and August. We consider that it is not necessary to interfere with the

summer fishing by imposing any close time during that period, as, from the great uncertainty of the weather and the nature of the coasts, although the fishermen would appear to have six months for this fishing, yet in reality they often are unable to fish during half that time.

The fishermen almost without exception, and the buyers as a body, are in favour of legislation to prevent lobsters under

9 inches in length, measuring from the end of the tail to the tip of the beak from being taken; the very few who are opposed to this restriction are unimportant in number and intelligence. We are quite of this view, as really a lobster under that size is of little value, and we strongly recommend that it be made

illegal under a nenalty for any person in any part of the United Kinadom to capture, fish for or aid or assist in taking or fishing for, or to buy, sell, or expose to sale, or have in his custody or possession, any lobster under the size above mentioned.

To secure such a law being carried out, it would be necessary that certain persons should be authorised and enjoined to seize any lobsters found in the possession of any person under the specified size, and to proceed against them for the penalties.

It would appear to us that the proper persons in Ireland should be the Inspectors of Irish fisheries, or any persons acting under their authority, the coast guards, the constabulary and police, and market officers in the various towns.

As regards crabs, with but few exceptions, all around the coast there appears to be an abundant supply, but from the difficulty of conveying them alive to the principal markets, and there being little local demand for them, they are not worth fishing for, as they seldom produce for the captors more than 10d. to Is.

At the present time no legislation would appear to be necessary as regards crabs; but in view of additional means of quiek transit springing up, and markets opening for the sale of this hi, it might be veel to enact that no crab should be permitted to be taken of less than 5 inches in length across the back at its greatest measurement.

We have, &c. (Signed) JOHN A. BLAKE.

Jos. Hayrs. Thomas F. Brady.

The Chief Secretary for Ireland, &c. &c. &c.

APPENDIX

т0

or

ENGLAND AND WALES.

EVIDENCE.

Independent School Room, Mevagissey, Friday, 15th September 1876.

PRESENT :

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

Merrina. Divine (seasonine by Mr. Bunklace). In a fish buyer. His lived on Anna dynamic Marcinger, and has bought the produce of every host since 1924. The season for each bugan in Necessary and each of the season for each bugan in Necessary and each of the best of the season for each bugan in Necessary and each of the long; the hock; a form of the produce of the season of the

there are contribed at two. A small hane, would be midded in the last to the conlocation of buyer and relief. The small make each scale therether is east contensity for 4d, and each core of the showing rays, or 18 menths, grow from the contribution of the showing rays, or 18 menths, grow ments and the last. Bellers and the relief gave on 18 menths, grow ments and the last. Bellers and the relief gave or 18 menths, grow in color words, and the state of the showing rays, or 18 menths, grow ments and the state of the state of the state of the state of the than the state of the state

remains the cross, and the seminations cross would be sometimes one arith of the whole. As the season advanced the male cross would be even more manerous. The average coated per day during the season for the seven boats was about there large crabs, worth it, each. These seven boats fish within 7 miles of Rame Head. The crab fishery These seven boats fish within 7 miles of Rame Head. The

These serven heats fish within 7 miles of Rame Head. The crah finitery are the conditions of the condition o

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of Concreal. He summet space as to beyond St. Iven, but the fabory is not prosocial with so much selection on the control. Concreasocial with so much selection on the control.

CHAN FIRST.

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one on story and the state of t

They must be the sum of the sum o

The average catch of houte is only three crabs a boat plez day; but say could be catch lobsters, and a cray has no two, and perhaps two dozen humps. One beat could set a hundred pots. This, however, is an extreme case.

(By Mr. Walpole.) Considers the present want of a law on the subject un-

Grape. The property of the contract of the contract of result nation and small framework and would problem the contract of the

Integration is to be effective it must affect the possession even more than the large state of the possession revers more than the state of the possession revers from the possession revers of the possession revers the possession revers the possession revers the possession representation of the possession representation of the possession representation representati

in every cove from Mevagissey to the Land's End; in fact all along the coast

Fibruma, however, would use spitier crobs and not collibe crabs. Units for our to the deep set from August to February, and make a clease time for there selves. The great point is the capture of small crabs.

In 1874 wishess agreed to buy jobutes of 11 inch in 1874 wishess agreed to buy jobutes of 11 inch in 1874 wishess agreed to buy jobutes of 11 inch in 1874 wishess agreed to buy jobutes of 11 inch in 1874 wishess and the capture of small crabs.

LOBSTERS at 1s. cach, under 11 inches its 6d. sech. There was no other retriction as to the small crabs of Fibruary. This impresent 70 r 18 indice of coast. There are crabs

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Price.

size. Had only 150 lobaters from seven boats in six months. Thinks the ground LOBSTERS. is over-fished because his neighbours found some new ground out at sea, a vertexancu because the neignnours tound some new ground out at see, there or four miles to the eastward, and caught from 100 to 150 blotters a week per host. Cannot say whether lobeters migrate. Ahout half the lobsters were show, and half under, 11 inches in length. Has seen hobsters long, and others only of \$\sigma^2\$ inches long. These models of the long of th

suggestions to make as to legislation for lobsters. ROBERT POMEROY (examined by Mr. Walpole). Is a fisherman. Lives at Gorran Haven. Has been fishing for 10 years. Goes crab and lobster fishing. There are 24 boats flabing from Gorran. Sells crahs in the neighbourhood and to smacks from Southampton and other places. Sells crahs shove S inches long at 1s. 3d. each; below S inches and not less than 54 inches too half price. Orab below 51 inches are zent away as "shet," reclored at two for one, or three for two. "The Gorran horse go as far as Destinan Tont, and Mode of consnor one, or sures for exc. A set corress mones go as me as a resultant come, and the from the shore to three miles out. The hosts go out about three miles a day, say. The highest number of pots carried by a best in 84; the numbers vary from The lightest number of pots earried by a loost is 84; the number of with that number down to 60. They constitute take small crabs. Seven or eight large crabs is the average take per day. From May to June the site crable some in and the men get small crabs. They never see the crabs with May, the small crabs come in with them. Has seven the crabs with May, the small crabs come in with them. Has seven the crabs with herries—one or two in a season. They are also the crabs with the crabs of the crabs with the crab crabs. the crubs spawn out at sea and migrate with the young ones afterwards. Microtion. Thinks they snawn in deep water in the early part of the year. Crabs are &coursing, found on rocks and sand. Rocks are best for lobsters and sand is best for crabs. Habitat. Would like to see an Act of Parliament making it compulsory to throw small crahs back into the water. Thinks females under 5 inches should be Gauge. thrown overboard, and all males under 5h inches. There would be no difficulty in having two gauges, one for males and one for females. There are a

great many females above 5 inches and under 55 inches. The outside size for she crabs is 8 or 9 inches. An "outside" male crab would be 12 or 13 inches. Thinks it is not necessary to have a law about females carrying berries, but Berried. considers that the trawlers bringing in berried hens do a great injury to the orsh fishers, and this should be prevented. But the trawhers could out away Transfers, the herries, and the crabs could be afterwards sold. Never saw a crab with the herries cut out or removed, and could not say whether it could be detected.

Nature makes a close season, and no legal close time is necessary. The only Gose time. regulation necessary is the prohibition of the capture of small crabs. Crahs are not decreasing in numbers. Thinks there are more crabs caught than ever foreass. But filtermen go further out to sea for them. There are a great many more fishermen than there were. Some seasons crabs are more plentiful than they are st others. Crube are dearer than they were, but this is due rather to an increased deniand than to diminished supply. They are sent to all the large towns in England. Thinks if small crabs were thrown away there would be an increase of big ones. There is no want of food, and the supply might be increased. There is plenty of food for double the number of crahs. Thinks crabs migrate from place to place. Cannot tell the age of crabs nor Costing facilities the rate of growth. A crab of 4 inches would cast his shell three times before shell.

see race or grown. A crue or 4 mones would care in a user three cames before reached 8 inches. Has marked a soft cruh with his initials in July or August, and in the following spring has caught a hard crah with the same initials. It was about 8½ inches across when marked. Does not know whether the emb grew much after it was marked, hus thinks not.

There are 24 houts at Gorran Haven, five or six at Mevagissty, and 26 as Port Looe.

The lobster season hegins on January 1st and ends at the end of September. Lobsters are fished for in deep water till August, and inshore after then. The boats come inshore in August to get out of the way of the drift nets, or they bons come manore in August to get out the per look per day is one or two would keep in deep water. The average take per look per day is one or two lobsters. A lobster of 11 inches sells for 1s. 3d., under that size for half price. About half the catch are 11 inches long. Berried hens are very scarce; they are

found chiefly in the spring. Thinks lobsters spawn off-shore, in deep water. Lobsters are not increasing in number, indeed they are not so plentiful as Decrease. they were. Perhaps they are over-fished in the deep water where most of the

CRABS

LOBSTERS.

LORSTERS. Sweetsing.

it is not worth while putting them back. No berzied here are under 10g inches, and that is very rere, they are usually above 11 inches. Very few undersized lobsters are taken. Calls small lobsters those under 6 inches. Lohsters do not breed when they are small. Does not think it would do to have a gauge for lobsters. Crah and lobster pots are identical, and crabs and mave a gauge for interest. Creat that source pois are interactable and reads and lebsters are cometimes taken in the same pot. The same bait does for both. Fresh fish is the hest haif, and neither crabs nor lohsters will go in unless there Post. is some small in the fish. Boil-

CIDATES. Used for bail.

he fishermen break up crahs as hait for wrasse, &c., hut not for crahs-Thinks the fishermen would not generally break up the small crabs for bait. The spider crahs are generally used for this purpose, and are as good a bait as the common crabs. JAMES BILLING, of Gorran Haven (examened by Mr. Buckland). Has been

No decrease.

crab fishing for 40 years. The crabs are not less numerous than they were 40 years ago. They vary in certain seasons. There are now more fishermen in search of them, and so they may not eatch so much per bost. 40 years ago

there were five or six hosts; there are now 24 boats, and yet there are as many crains as ever. The sizes are the same now as formerly. There are as many large crabs as there used to he. Does not think a close season for orals necessary, as there is a natural close season. Thinks little crabs should be Would keep all crabs 51 inches across, and throw put back into the water. put these into the water. ... outd need ... Agrees with Mr. Pomeroy as to a overboard those of 5 inches and under. Agrees with Mr. Pomeroy as to a gauge of 5 inches for females and 52 inches for males. Never sees any " seeding crales" (berried heas) except in spring, and then only a very few. He throws overboard "seeding crahe." This is generally done. (By Mr. Walpole.) Thinks there is no decrease in the number of crahs, but

wants legislation because little crabs could grow into big ones. There are now 24 boats where there used formerly to be only six, and the 24 hours catch more than the six. More little crahs, as well as big ones, are taken. There are more crabs caught now than there were 40 years ago. Does not think there were more big crahs in the sea 40 years ago then there are now. LOBSTERS.

Increase.

The fishermen catch as many lobsters now as they did 40 years ago. As they get more money per lobster, each hoat carns more money. There is no decrease in the number of lobsters; in fact, though there are 24 boats instead of six, his boat catches more lohsters than it did 40 years ago. He used to go out about the 14th January. Now he goes out close on Christmas. Does not our about the 14th January. 1809 in goes our close on Agrees with Mr. Pomeroy's evidence as to the price of lobsters. 40 years ago lobsters were sold at 7s. a dozen above 11 inches in length. Below that size two lobsters counted as one. THOMAS LEY. Is 73 years of age. Lives at Mevagissey. Has been crabbing for 12 or 14 years. This was 50 years ago; but recollects crab

Price. Decreased size.

CRABS.

fishing for 63 years past. In the interim has been seining. There are not so many large crabs as there used to be, but there are more small crabs. When he was a boy he caught 20, 30, or 40 large crahs, measuring 8 inches across, a day. This was with 40 pots; now with 40 pots he would not eateh more than three or four. Thinks the large crabs have got scarcer because there are so many hosts after them. 55 years ago there were five hosts, now there is not many mosts never necessary, but the Gorran men fish there. Does not himself go one from Mevagissay, but the Gorran men fish there. Does not himself go seabling now, and cannot tell what Gorran men catch. When he said they crabbing now, and cannot tell what Gorran men catch. When he said they caught three or four crabs a day, it was from hearay. The crabs brought to market now are not so large as they used to he. The crabs occur to the market now are not so large as they used to like the cross could be ground from deep water. The fishermen cannot fish out of the ground. There is very little trawling off Merzejissy because the ground is rough—rocky and stony. Rough ground is favourable for breeding crabs. Would prohibit the capture of all crabs under 5 inches. (By Mr. Walpole.) His evidence relates to 50 years ago. His evidence as to erabs now is hearsay evidence. There was no law about crabs when he was a

Crabs when he was a boy were Ss. a "long dozen" of 26, from March to May; after May they were 6s. a dozen of 26. This was 50 years sumo.

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Has seen lobsters all sizes. They are just the same in size and numbers as

they used to be. Has no other recommendation to make. AREE PAUVICE (commissed 9 Mr. Pholoch) is a thin merchanic at Marcacinary, Total Area (Pauvice) (commissed 9 Mr. Pholoch) is a thin merchanic at Marcacinary, Total Has been 10 or 12 years in bonties.

Has been 10 or 12 years in bonties.

There are it's houst at Forway. One at 20 Mr. Palcarin, one at Part, then ext faultentown, two at Pacelphana; two principle enables and three others at Marcacinary, 24 at Germa, 24 at Port Loos, one at Port Holland, about five or six at PortBouche.

Ten years ago the highest price for crabs of 8 inches and over was 9d.

Under S inches two counted for one. Those under 6 inches went for "shes" and the price was 14d. each. LOBSTERS. Lobsters under 11 inches sold for 9a'., below that size two went for one. Now

the highest price for crabs of 8 inches is 1a. 3d. Under 8 inches two count price, for one. Under 6 inches they go for "shas," and sell at 23d. each. The Germa crabs fetch the highest price. The ground there is more rocky and better than elsewhere in the neighbourhood. The best fish are caught from

January to May. The price has increased about one half.

He gets fewer big crabs than he did 10 years ago and fewer lobsters. The Decrease. size of the lobsters remains about the same. Has the whole take of some men whose take he had 10 years ago. These men do not fish less, but fish harder than they did. They have more craft and positively take fewer fish. The seasons vary, but the produce is falling off. Attributes the falling off to the small crabs being taken. The small crabs are as numerous as ever; but the small enth being halon. The small enths are as numerous as over; jout tast price of small enths arisen through the bull ones whether they used to hay Challenge and the property of the contraction of the contraction of the property of the contraction of the contraction of the code under the contraction of the code under the code under

CRARE

LOBSTERS.

his experience. They spawn are out to see. Prefers his gauge to that of the Gorran men. Has no other recommendation to make as to crabs. The supply of lobsters is falling off as much as that of crabs, especially at

Fowey. Eight or ten years ago he used to get double the number he gets Exerted. now. All the take comes to him. The remedy is not to take the berried hens, but they are the best fish, and very numerous in the early part of the year. There is a demand for them in the London market, and they fetch a high price. If the cepture of berried use acroison market, and they rated a night proce. If the coptum of berried hens were prohibited there would not be enough belouters to supply the demand. Does not think, if the outputs of berried hens were them when they for the contract of the copture of all loosters under 5 inches long. About 1 in 6 or 1 in the capture of all loosters under 5 inches long. About 1 in 6 or 1 in

10 are under 8 inches. Thinks this would help to errest decrease, but would not be sufficient. Is not, however, prepared to recommend the prohibition of the capture of berried hens, which would entail a serious loss on fishermen and salesmen. Undersized fish pay the fisherman better than the salesman, as they do not pay for the cost of currence.

(Examined by Mr. Buckland.) Never saw many seeding embs. Thinks crabs Plagar spaws far out to see. Crabs and lobsters are sent away alive. He does not plug the crabs, but cuts them, so that they may not bite one another. The crabs that are boiled are boiled alive. Lobsters go up by ordinary train. Few are boiled here. They reach London in 24 hours.

Has heard Mr. Pawlyn's PETER BILLING, nephew to James Billing evidence. Thinks Mr. Pawlyn is wrong in thinking that crabs are decreasing. No decrease Mr. Pawiya gets as many fish from the fishermen as he used to do 10 years Note: Yawying gets as many man from the innorment as no tues to see 10 years, and the good first more. He himself catches at many earlies as he used to do, and he has fashed for nearly 20 years. There are as many cribs and as many blocking the three are more books to divide them between. The second as many blocking the three her more books to divide them between Table 10 that the to be gittable in the fish are on the whole as plentful as even. It also that no legislation is necessary, but agrees with the Tennoty is, all the Tennoty is also the property of the property

as to a 5-inch gauge for females, and a 51-inch gauge for males; but he would Gauge. himself recommend no law, as crabs are not decreasing. Fishes in the same place as he used to do, and does not fish more in-

shore. Can esteh small ceahs in and out. Small ceabs are very numerous LORSTERS. now

Mr. Pawlyn's proposed 8-inch gauge for lobsters would take in all the lobsters from Norway and Shetland, and stop all the trade with those countries, Marwoosian. Cannot get bimself enough large lobsters to get a living, and is obliged to Spanioning.

eatch small ones. A few lobsters may come within shore to spawn. If the capture of berried hens were stopped the fishermen would not get a living by lobeter fishing. The little embs get out of the nots. He throws overboard all small crahs under 5 inches across. As the fishermen do throw overboard all the small crabs now, a law to compel them to do so would make no practical difference.

Norway lobeters are under 8 inches, or about that size. They are a very small lobster. Thinks big crabs are as plentiful as ever.

DAVID PATON. Lives at Gorran, and has been erabbing for 12 years. Thinks CRABS. he has taken as many crabs this year as ever, and there are more now than No degreese. any other year. The end of the season has been the best for 12 years. Salis his crabs to Mr. Pawlyn. There is no dorresse in the number. Has sold more in previous years, but has sold them to other people this year. Mr.

Pawiyn took his flah up to the end of June or July, and after that they were sold to other people. Hence Mr. Pawlyn knew nothing about it. Agrees with Mr. Pomeroy and Mr. Billing that all "abes" under 5 inches, and all "hes" under 5½ inches should be thrown away. Thinke this would make Gauss. crabs more plentiful. These small crabs are sold now as two for one. Lobsters LOBSTERS. are just as plentiful as ever. Would like to turn away all lobsters under 6

These small lobsters are sold now, but not often taken. There are so few lobsters under 6 inches caught that it would not be worth while to make a law to affect them CRARS

(By Mr. Bucklend.) Small she crabs breed. Throwing back the small crabs would increase the breeding stock. When he sees crabs with seed they are Rosseline. generally small ones. Large he crabs are 13 inches. Large females are 9 inches. Living is bad now, and must not he made worse.

RICHARD CLIMO. Lives at Gorran Haven. Thinks lobster seasons vary. There LOBSTERS. are more hosts now than there used to be, and they eatch more fish altogether, hut less per bost. Used to go lobstering 40 or 50 years ago at Polrunn, There was then only one boat, to work five or six miles of ground, now there are 10 or 12 boats on the same ground. In the old times there were good

years and bad years, and there are good years and bad years now. The finer the weather the better the lobeters. Narrassion. Was in Norway during the Russian war 20 years ago. The people brought lobeters on board for sale. They were all small, 9 inches and under. Never saw a lobeter of 11 inches in Norway. Thinks the Norway lobsters are generally a smaller kind than our. They are the bright his lobsters. Has sees lobster the length of his finger; they have been thrown away as too small. The small

lobsters generally go through the pots. The small ones are generally caught in balt pots, the ribs of which are much closer together. All lobsters caught in a lobster pot are marketable. CRAY-FISH.

There used to be cray-fish at Fower, and they were very plentiful. They are very scorce now. Thinks they go in shouls.

John Hunkin Lives at Mevaginery. Is 73 years old. Is a fisherman, Detroses

Has been a mariner, and has not been erah fishing since he was 18 years old. CRARS

There were three bosts at Mevagiesey then. Used to go to the ground where the Gorran men now go, but never fished in deep water or shove a mile

the Gorna man now go, but never labels in deep water or snove a min-from show. Carbo wave very pictuall. Used to fine with 100 poin and consi-rent many control of the control of a mine of the control of 3 mines across. Used to there sawy all the cash. "The control of 3 mines across. Used to there sawy all the cash. The control of 3 mines across. The control of 3 mines across across control of 3 mines across c Ss. a dozen of 26, and the price fell in May to 6s. per dozen. The railway has opened up a larger markst, and the increased price recently may he due to it.

A large crab which sold when he was a boy for 6d, or 4d, would be worth 2s. 6d, Agrees with proposal to throw back small crahe. Has caught herried lobsters in May and June, ready to spawn. Has also caught she crahe. THOMAS POLLARD. Has been in the crab and lobster trade three years. This is the best year be ever knew. Does not know whether this is due to the bot weather. It may be no. Warm rainy weather with westerly winds are good presented for erab acteting. Agrees with the recommendation already given, to throw Gessechack she enals under 5 inches, and has no other suggestion to make.

To septh Caiso, of Polyman. The Gorran men are unanimously of opinion that there should be a law to prevent the capture of she crabs under 5 inches, and of he crabs under 55 inches. There need be no law for lobsters.

Town Hall, Falmouth, Saturday, 16th September 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALFOLD, Bequires.

JOHN TREALESTE, M.P. for East Genwall. Tooks considerable interest in the Chall and Lokest Fesherica (Mortalis III) when it was before Parliment had sension. Answing the importance of the cash and lother fasheries of Communitarian Communication of the Communi

diministring in quantity, size, san quarry,
As Boons, J. Wrnggles, a fisherman, told birn that the fishery will die out in
a few years. A few years ago he oould catch 60 lbs. of lobsters in a day, now
be can only catch 24 lbs. He thinks the esleable size for lobsters should be Gerge.

he can only caten 24 bis. He thinks the sistents are re-reserves should be one quaster of a pound weight.

At Staten, William and William and finherman for 40 years, told bits the cate of the cate o

obbits: spans twice a year. Hence fishing early and late has been the cause of better upon the control of the property of the property of the control of th

All Kincervis assemble to the instruceop of the leading fishermen, the fisher has fallen of both in the quantity and fise of the fisher, particularly process. He has been been processed to a certain extent it has dismissed. The fashermen doubt whether legislates to a certain extent it has dismissed. The fashermen doubt whether legislates in would be willingly recorrise, but wittoom legislates the fallery man. On the contract of the contract o

from September to January. The inheremen are unsammonary or opinion under consensation, better the medium of the water. There Exercise, are few caught on that coast.

All Burnature as Sattrageros, Mr. Bird says the well-to-do fishermen are in through of a protection Act; those who live from head to mouth opposed in the formal formal formal formal from the process of the coast of

restry cought origin to rough weather preventing flating. The Melberto to rough approve of a standard of site for fine. Approved to the first properties and the standard of site for fine. Approved to the standard of site for fine appealing. Berried then should be refrected on the salesman. As Spanning, the standard of the salesman, as Spanning to the salesman and standard to the salesman. As Spanning, the salesman appearance of the salesman and sale spanning londards are sometimes brought salesman anomaing. At East Look he saw the fathermone, and had an emercial from them. They

an in forces of protective legislation, and would agree to a close time for six Cane rise, menths in the year. There is a permitted close time, origing to the pilledwin Pattern filled season, which commence in July. Crubs should be returned to the use of less "90" to the close of the part of the permitted season, which commence in July. Crubs should be returned to the use of less "90" in the cetty met the season, which commence in July. Crubs should be returned to the use of less "90" in the cetty met the season which commence is not the season which the part of the part of the permitted season which is not part of the permitted season which is season which is not part of the permitted season

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Gauge.

be sizeable fish. The small crubbers would object to any close time. They cannot fish during the hard weather.

At POLYMEND, Mr. Langhrin, a coastguard officer, who was out with the

LOBSTEES.

Berried.

Gauge.

Glore time.

At POLIFERRO, Mr. Laughtin, a coatiguard officer, who was out with the "Challenger," said the flatery had much degenerated, and thus a protection Act should be passed. The crab fishermen there are in favour of protection. No crab less than 6 inches across should be taken, and there should be no distinction between males and finales. There is no regular time for lobyters spawning berind hens are cample at the typer round. No lobsters should be

taken less than 7 inches long. August would be the best close time for lobeters. Cray-fish should be protected.

At POLRUAN, Joseph Climo, fish salesman, avered that there was a great

AF DEARWS, Joseph Climb, all: shi sleleman, arrand that there was a great decrease in the number of earls and obleviare on the Gernish court. They are much encore, and very small, owing to the pole being out all the year round in a constant of the pole is coopedare with the neutral low-rid beam to the easy but polession on this last Geologe and terminate on the 1st March. It would be a great silvantage to the failurement of the strength of the pole of the pole of the total of the pole of the pole of the pole of the pole of the under Gainka, make earls under 6 inchos, and farmals earls under 4 inches, under Gainka, make earls under 6 inchos, and farmals earls under 4 inches, AF Dexex, war, My, John Bolithe said there should be a close time from the pole of the said the strength of the pole of the pole of the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the said the pole of the pole of the pole of the

CRAY-FISH Ms
LOBSTEES, SER lim
Spanwing, disc

limit of 41 inches for enhs. Lobistes are rawly found under 8 inches. He disapproves of all legislation for betred them. Two wifts of all lobistes enuglit are berief hems.

As Sr. Ivas, Mr. Rowwell says, the fishermen edmit thes fish have dimit the state of the sta

Graye.

taken. (B) Mr. Bactland.) Tilinch is would be impossible to have legislation about (B) Mr. Bactland.) Tilinch is would be impossible to have legislation about (B) Mr. Bactland (B

CRABS. Mest in.

the most is a cuch of 4 inches weight 10 cs. A cuch of 7 inches in average condition would contain 5 cs. of most; these weights are calculare of the Jorge Canton (seminor by Mr. Wileyled). It is shahmonger in Falmonth, the contained by Mr. Wileyled). It is shahmonger in Falmonth in the contained by Mr. Wileyled). It is shahmonger in a contained by the contained

Decrease Boats.

form beast more, while there used to be eight ten press says. This declines during sensity of fish. He can to pay the predeem of 20 process 20 to 10 hr. sensity of the contract of the contra

should be in anyone's possession. Crab pots with fine bars are made to eatch

Price.

Dec for batt.

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wrasse; small crabs are one of the best bait for wrasse. Spider crabs are also used. Unless the Consequent were directed to carry out the law, small fish Boil for. would infallibly be broken up for bait. The efficacy of the law must depend on the Admiralty giving permission to the Constituted to enforce it. A close LOBSTERS. on me Augustany giving permale lobsters, from 1st March to 30th April, when Gross time. sometic another of measurements and the second apply to Corawall, but it would be difficult to have a merely local law. Since he saw an advertisement of this Berriol. inquiry, a month ago, he has had 400 lobsters, and only 18 berried hens. Infers from this that the breeding season is from March to April. Male

lobsters would be sufficient to supply the trade. Thinks female lobsters would not be broken up for bait. (By Mr. Buckland.) There are as many large crabs as ever, but the fishermon Endergoso for them to deeper water. They go further in pursuit of crabs than they used to do. The railway has had a great tendency to take crabs, &c., away from Falmouth. Transacle vary from 30 to 60 fathoms in length. They are used in deep water. The majority of the flaherman would welcome a pro-tection Act, but the minority, say, 2 out of 7, would break up small crabs. Fishmongers are very anxious to have bernied hens. He thinks lobisters only spawn once a year. Considers a lobster 9 inches long to be three years old; a lobster of 5 inches was the smallest he ever had. Has seen lobsters cast their Creting their berries against the beards of tanks in which they are kept. Never saw small lobsters. Thinks lobsters shed their shells every year. Thinks cans of a cer-tain age never shed their shells. When they have done growing they do not require new costs. A white crab is the ordinary crab in a delicate state, baving

LOBSTERS.

CRABS.

shed its shell; it is semi-transparent. The shell is so soft as to be easily broken, like fine glass. Thinks crabs in this state are just getting a new shell. White, thin crabs never have any barnacles stack to them-Crabs are sent away alive, and are boiled alive, being put into cold water, Redling, and gradually leated. If they were put into boiling water, 10 crabs out of and granding senses. It say were put the strong would holl out. If they are killed first, by being stuck in the centre of the body, they bleed, and the flavour is gone. Knows this of his own knowledge. He never plugs lobsters. This is done at Durgan, but at Falmouth the claus are nicked. This is done to prevent them fighting, and does not have the effect of bleeding

(By Mr. Walpoit.) The bosts at Porthscatho are reduced from S to 4; Puts. consequently the number of crab catchers is reduced, and the smaller number cannot catch as many crabs as the larger number. The four boats carry as many pots as the eight boats used to. The number of catchers is diminished, but the eatching machinery is greater.

RIGHARN COLLINS. Lives at St. Mawes. Has been acquainted with the crab and lobster fisheries for 14 years. There are 13 boats now at St. Mawes. more than ever was known. They carry on an average 45 pots, or 500 to 600 pots in the aggregate. The fishermen fish from the shore to 5 miles out. They go further out now than formerly. He thinks crabs and lobsters are not and the state of t be glad to see the destruction of small fish prevented; viz., female crabs Gauge. under 6 inches; male crabs under 8 inches; and lobsters under 9 inches; and emy-fish under 11 inches.

Small crabs are not much used as bait; a few sickly crabs are broken up, Used for buil. but the fishermen are plentifully supplied wish bait. The riks of the pots are less flun 3 inches apart now. Cannot my whether this should be attered. Recommends a close season, so as not to allow fishing before the 1st March. Pilehand Sale Becommences a cross season, so as into orab fishing in July, August, and Pal. September. Crabs have a close season in those months when the pilchard nets are out, so a legal close season is not necessary. Five out of seven fishermen would be glad of a gauge for crabs; but there might be a difference of opinion

as to the size of the gauge. Is a fisherman, and entirely dependent on fishing for his living; chiefly scining, crub fishing only occasionally. There are men at St. Mawes who are entirely dependent on crab and lobster tishing. Some of them would object to legislation, but they ought to be in favour of it.

There are more fishermen now at St. Mawes than there were over before in CRABS. his remembrance. Never knew so many. The men cannot get anything else to do, and so have to take to it. Thinks they are making a worse livelihood than their ancestors. They get better prices, but this is not equivalent to what they used to make at a lower price

JOHN DOWNING. Is captain of Mr. Baccup's yacht. Has been acquainted with Falmouth, Durgan, and Helford rivers for 25 years. Has got his living by grab and lobster fishing. Was fishing last April two years-in April 1874 and had been doing so for 25 years previously. Crabs were more plentiful Degreese. when he was a boy than they are now. A host could take 18 to 20 large crabs when he was a boy, i.e., crabs of S inches and upwards, and perhaps six or nine lobsters in a day. In 1874 a boat would have taken three or four large

crabs, and about the same number of lobsters. It is a rare thing now to get over four large crabs. When he was a boy there were eight boats fishing on this ground. Now there are nine boats. They carry much the same number of pois as they used to do. Attributes this large decrease to the capture of small fish, and fish in spawn. When he was a hoy the fishermen used to return all small fish to the water; any male crabs under 6 inches, and females under

5 inches, would be then thrown back. The market was not good enough for the small crabs. The railway has caused the demand for small crabs. Nine out of ten crabs will be females. The females never bring so good a price as the males. Would recommend that all male crabs under 8 inches, and females under 6 inches should be thrown back. Does not think that if this were done the fishermen would break up the undersised crabs for bait. They have LORSTERS.

me measurem vocate creax up the measurem crabs for batt. They have eneugh brit. There are not many waxes pot as it pugna. Dess not know what the fithermen do at the Linard. Would recommend that no because the contract of t Choos time Security. close June and July then January and February. Would prohibit the sale of berried bens; does not think flahermen would remove the berries. The offence could be detected; but it would require skill to detect is. All lobsters in Breezias spawn should be returned to the sea.

(By Mr. Buckland.) When he was a boy small crabs were returned to the sea, because there was no market for them. Howard Fox, of Falmouth. Has conversed with crabbers at Mullion and other places near the Lizard; they all state that crabs and lobsters are much scarcer than they used to be. The fishermen have to use more pots and go further from home to get a living. These men would all like a law en-forcing the return of small crahs to the sea. Craks are too tender a batt for

forcing the return of small crans to the sea. Orace are too tender a batt for deep-sea fishing with hooks; the danger would be that small crabs would be used as bait for the wrasse pots. The majority of the fishermen would only be too happy to see a law on the author. The law must be enforced on the possesson not on the taker. Large cray-fish are constionally caught. Crabs will travel great distances even with their claws tied. Some years ago a small Travellino. trading craft was taking shell fish from Mullion to Plymouth and she sank off Fowey. Shortly afterwards a fisherman at Mullion caught some of the identical crabe in his pots at Mullion, a distance of over 40 miles. He knew

the crabs were the same he had previously captured, because he tied their claws with a peculiar knot, and the knots were still on them. Other instances of the same kind have happened in this neighbourhood.

J. C. Kunnerley, of St. Mawes. Has received large lobsters, two within to hand hand to the last 15 months; one weighed 10 lbs, the other 94 lbs. Thinks the St. Maues fishermen would agree with Mr. Collins' evidence, and that they desire to be protected against themselves. Undersized lobsters should be returned to

the sea. Thinks crabs and lobsters migrate to deep water. There are certain Migration. holts where a crab may always he found.

Thomas Webber, Mayor of Falmonth. Agrees with Mr. Kenneriey's

evidence. Knows many fishermen at St. Mawes, and thinks they would endorse Mr. Collins' evidence. The catch of crabs and lobsters at St. Mawes is decreasing. His knowledge of the figheries is only hearsny knowledge. Think

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it a pitiful sight to see small crabs and lobaters exposed for sale, and considers that a short Act should be passed to prevent their destruction.

Anyhou Charlo, Is fasher of John Chard. Was in early life a

CAPPING UNDAYS. The most configuration of the confi

St. Mawes, Saturday, 16th September 1876.

Fox.

PRESENT: Spencer Walfole, Esquire.

WILLIAM GREEN. Has been use head blother fishing for 60 years, and has practiced it or year. There are note more than this busine employed, and the process of the process

like to see all embe under 6 inches, terpern overconer. A nowester of under the interest in th

see each, but it is be immore they are might,
CRAILER LEAVED, LEAVED,

herving.

Many years ago he congist 100 orabs and lobaters are decreasing in number.

Many years ago he congist 100 orabs and cays-flat at one hant of a treammel, and now be cannot get 13 or 14 in a day. Has no doubt that and now be cannot get 13 or 14 in a day. Has no doubt the orabid orab orabido or

CRABS

Decrease.

Govern.

General.

Sponting.

Gause

reach to the bottom of the sea, or they would catch nothing. All crabs, whether male or female, under 6 inches, and all lobsters under 8½ inches, should be returned to the sea. If this is not done the fishing will soon be rained.

RICHARD COLLINS (cousin to R. Collins, examined at Falmouth). Agrees that fish are becoming scarcer, and would have all crabs, male or female, under 6 inches, thrown back. The size proposed by the former fishermen, 53 inches for males, and 5 inches for females, is too small. Richard Collins, of Falmonth, is not a erabber.

N.B.—There were three other witnesses in the room, all of whom agreed with the above evidence.

School Room, Durgan, Saturday, 16th September 1876.

PRESENT . FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

JOSEPH TRESIER (examined by Mr. Walpole). Is 65 years of age. Has been

fishing 30 years, and has fished for crabs all that time. Nine or ten boots go out crabbing together. This is about the same number as when he began. Crabs are not so thick now as they used to be. There are more boats after the crabs than there were 30 years ago, and he thinks there are too many boats fishing, and that crahe are over-fished. Lobeters are getting scarce also. Does not know LOBSTERS. what could be done unless the fishing were stopped altogether. It would be a good thing to put back all small lobsters. Mesers. Soovell, from Hamble,

will not take any he crabs under 6 inches, nor females under 5 inches. He sends the small crabs to London. Thinks it would be right to stop the capture of she crabs under 6 inches, and to easier of she crabs under 5 inches, and he easier under 6 inches. Would like capture of she crabs under 5 inches, and he easier under 6 inches. Would like scale enforced. Merchants will take lobsters of any size. It would be a CDADE good plan to leave the small lobsters to grow. Cannot fix any size. Thinks it would be a good plan to throw back berried bens. It would be a loss, but he would consent to the loss if all others did the same. Believes all the Durenn fishermen throw back crabs in spawn, but many of them are taken. (By Mr. Buckland.) Does not know when he sees most spawning crabs.

Messra. Soovell buy berried heas, and any olive lobstere be can get. Has caught a lobster weighing 13 lbs. Could not send fish to London if it were

not for the rallway. Can sell as much as he can catch. Always throws away spawning crabs. JAMES JAMES. Has lived at Durgan 21 or 22 years, and bus fished for crabs all the time. There are fewer crabs than there were 20 years ago; lobsters also are scarcer. Fish are about the same size as formerly. Cannot say why

made are scarcer. Find are bount ten some care as arminerly. Califor say why craiss are accorer. When he went fishing 20 years ago he caught three times as many as he can entch now. Thinks all make crabs under 6 inches, and female under 5 inches, should be done back into the sea. This should be done to enable them to grow. He crabs are large crabs, but there are not so many to ensore seem to grow. He crease are large cause, one casts are into so have of them as there used to be. They are mostly caught outside the bey. The pote set first are taken in in July on account of the trawlers. Uses thembooks, bits, and other fish for batt. Never uses young crabs for batt, only spider crabs. Never returns any loistens to the sea, and does not eatch more than one or two lobsters under 5 inches. The LORSTERS.

sea, and does not eased make than one was assessed as the serverse size is from 9 to 11 inches. Catches very few under 9 inches. It would be no hardship to put back lobstors under 35 inches. Catches about 100 lobstors in a season. One in ten might be under 35 inches. Does not see that anything can be done but to put back any "seed" crubs, which the

HENRY PASCOR. Has been fishing 20 years, and erabbing every summer buring that time. Crabs and lobsters are decreasing: they are over-fished. Would agree to throw back all he crabs under 6 inches, and she crabs under 54 inches, and lohsters under 54 inches. This would be better for the fishermen Picheri sca-in the long run. The drift nets prevent each fishing in the busy parts of the tag-season. Thinks this is very hard. Has heard old fishermen say that there was a law to keep pilchard drift nets off the land. One man lost 30 orab pots through the pilchard sets in one day. The fishermen go four miles further

though the plained state in one day. The fithermore spo four miles further common from the form that they rand to from there for color than the grand to fit the plained state of the fitted state of the color than the color of or nine boats there now, and there used to be only three. The crabs are being or mue boats there now, and there used to be only street. The evide are own; fished out. About 30 to 40 pots; got ouch bots, and there are 300 pots from Durgan. If he had to make a law he would enforce the throwing back of all nevision and evide to a street, would show say the beaver, and might time of the year. In a month's time they would obtain and might then be sold. The fishermen own gift a consert to this. Thinks they would then be sold.

They make as much of a "shotten" lobster as a herried one. Dots not know the opinion of the fishermen at Porthalla. Most lobsters are nicked, not plugged. If they are plugged the people will

not huy them.

Guildhall, Penzance, Monday, 18th September 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

THOMAS CORNISH, solicitor, Pennance. Has owned erab pots for more than 20 years. The erabling stations about Mount's Bdy are:—1. Mullion, 2. Porthleren. 3. Prusis Cove. 4. Penberth. 5. Porthleware. 6. Sensen Cove. All these are fisheries for crabs and lobsters. His experience is that the fish have not fallen off in numbers, but the grounds inshore have been fished out, and the men have had to go to deeper water. On the eastern side of Mount's Bay, he thinks, a limit should be placed on the size of a sideable crab, say 5 or 55 inches. Would he glad to see a total prohibition of she crabs. They are no good; it is a waste to catch them. Lobsters and crayfish are seldem caught at Penrance under 9 inches. The crab pots would not George catch them much smaller than that. There is an enforced close time in Mount's Bay in July and August, when the drift nets for pilehards drive in the crab fishers. Does not think a close season important at the Land's End house the fishers are so deep and so extensive. Would like to see herried

Pilchard fishhens all thrown back into the ses. Has had very little experience of crubs in spawn. More females than males are caught.

(By Mr. Walpole.) It would be a serious less to prohibit the capture of berried hears, but in the end it would replenish the fishery. This should be LOBSTERS.

enforced throughout the year. Not a large proportion of lobsters in the spring are berried, but berried hens are cought all through the aummer. Is nware Berried. of the large demand for berried hers in Loudon. It would be extremely difficult for fishermen to remove the herries. It would be possible to dis-tinguish between a lobster that had shed its berries naturally and one from which the berries had been removed artificially.

Which are former had been removed arranges macks. The minimum size for CR Crabs are fortched away by the trading smacks. The minimum size for CR Crabs, under the Norfolk Crab and Lobster Fisheries Act, is 4½ inches. Proposes 5½ inches as a minimum gauge. Crubs under that size are not accepted by the trading smacks, and then they are taken as "quarter fish," four counting as one. The prohibition of unsireable fish should be universal. It

CRABS. Decrease.

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CRABS. Most in. will be of no use to have such a law unless it is applicable to the goat markets. His tested the meant in earb of 4) sinches. In the claws and logs the meat, exclusive of the excent in the body, weights 15 or. Thinks the Nordelk Are should be repeated, and the sais of all creaks under 5) inches thereughout the country should be probabiled. A creb of 51 inches would recognize the country should be probabled. A creb of 51 inches would recognize the country of the count

Gauge. Migration.

lobster of 8 inches would get through the pots, the bars of which are 2 inches apart.

(By Mr. Backland.) The crab and lobster fishery ceases from the middle of

Migration.

hard at the matching of March and consequency conception (the limited was the consequence of the matching of March and Consequence of the March and Consequence o

Berried.
Price.

proteins an internate votate to the town of all one in troop are round read on other. Spatier can be are used for belt. Little solible reads are not are round for belt. His solible reads are not are brighing over the belt with the solible reads are solible to effect the solible reads of the result of the solid liberate are solid becomes and the result have, and all hear reads. The loss would be componented in the early large and all hear reads. A four SYMONS, Lead's Fall. His observation heads him to recommend that small the others should be returned to the so. They were used 30 years up of or belt. Now Leaden futurous give 2d or 3d, each for them. The faither for crustless is falling off. By cortially preservation and as close season.

Migration.

führer for centsteca is falling off. By circular preservation and a close season, the falletenem supplees in one year and gain in ten years. Cary-dafa come in the falletenem special control of the control of the control of the United States of the Control of the Control of the Control of the best over-fallout. The result is that falletenem keys not done so well for the last three years. The Sensen Cove faltermen go from home to Selly and to [18] Mr. Weigheld. Proposets to problid the control of all she crafts but under 5 [18] Mr. Weigheld. Proposets to problid the control of all she crafts of the control of the co

Gauge.

inches, but to allow the capture of as eachs of any size, just as a gentlemen kills the code placeasts and sparses the bear. There is no maximizery for enforcing the law among the finherman. The beat way is to enforce it against the aslateans. Does to know bether he could detect furtherms breaking upunianciable each for blast. World propose a close time for cribs from the September to Doesmber, and only a few from Jamusey to Gerburg. The second of the country of the country of the country of the country. On the 9th May 1876 eachs and bolsters came in in good quantities. On the 10th they came in mise quantities. On the 31th the ball three doors,

Close time.

Migration.

LOBSTERS.

very fine fish. On the 2nd June he had two dozen and four. On the Sh June one and a balf dozen. On the Elth June two and a half dozen. Sh June one and a balf dozen. On the Half June two and the Half dozen. This was the sack of a basi from Samme Croys to Paditor. The group produce of the best was \$11, in 21 weeks. It would be a benefit to the fithermon. Some finiterious my lobitors are continually growing. Whate to give no

Spanning.

commendation on the point.

(By Mr. Bucklessel) The fish from the Land's End go to Birmingham, Learnington, and (principally) London. The railway has had the effect of increasing the decaunal. The crab fisheries are of counterable value, and might be increased in value. 22 beats are engaged here. The fishermen sent

Plagging.

increasing the decand. The crab faibreire are of consistrable vator, and crabs to London alive. The London interme will be consisted to the consistence of the consis

GRABS.

STRUMEN HAVEY JASTE. Live near Penherth. Has known the fisheries of the control o

The fishermen catch so many small crabs that large once are not allowed to

grow. There is a ready demand for small crabs, which sell at 2d. each. The fishery at Penberth used to be very small.

HENRY BLACKWELL. Is proprietor of the Queen's Hotel. Sees very few crabs or lobsters; a few females and very few males are brought about. They are very small, and quite necless for use at the hotel. This has been the cass ever since the railway was opened to London in 1859. Has only bought one Resiscope. creb for two years, and that was amuggled. Has often asked for crabs. Large crabs are not hawked about as they used to be. Has had lobstere of a certain size up to this year; but this year has not had them. They are very small, not larger than that (pointing to an 8-inch tobater on the table) and

ought not to be taken.

WILLIAM HENRY RODD. Is Mayor of Penzance. The crab and lobster Prickers parfishermen complain that they are not sufficiently protected from the drift ingnets, and that therefore they have not sufficient opportunity for taking crabs and lobsters. He is speaking of the ground 9 miles out to ses. Agrees with

the evidence already given as to a minimum size and close season for crabe

and lobsters. STREET HARVEY JAMES (recailed). Has trouble to get crabs and lobsters from his own cottagers. The wholesale fishermen take all or none. Systems Bonn. Lives at Sennen. Has been a crab and lobster fisher for

50 years. 50 years ago there were five to eight hoats at Sennen. 40 years Beats, ago there were no boats. They were all given up, because the price was low and fish were source. The steamer for taking the fish to Bristol was started more than 30 years ago. Before that, Mr. Scovell was the only buyer. In Mr. Scovell's time he used to sell him fish at Ss. a dozen of 13. Two cray-

in Art. Scovell's time he used to sell him fish at St. a dozen of 13. Two cray-fish counted a cone losbeter. Lobstaner under 11 inches long counted two fishs. Scole of covent-Crabs under 7 inches counted four for one. Crabs above 7 inches and under sun. It Il counted two for one. These measurements are retained now. The steamer caused the price to risk to 10t. a dozen, and now they have risen to 20t. a dozen for early fair, to 15t. a dozen for lobsters and enals; and then cruisa are sold at 2d. each. There are now 22 bests fishing at Sennen. The number of nots was quite as great 50 years ago as at the present time. 50 years ago the

average catch was one fish to every two pots; and the average now is much the same. There always was and still is a difference in the sessons; some obeing good, others bad. The servage take per boot is not much worse now than it was 60 years ago. Fishermen are earning better wagas than they were 50 years ago. He has not much to complain of. They sell no crabs under 50 inches. If they are in want of bait, they use crabs; if not, they throw the small ones overboard. They meally want crabs as bait. They use crabs as bait Uneafor bait. for wrasse, and wrasse as buit for crobs. Even if a law were made restricting the capture of unsizeable crabs, small crabs would be broken up for bait. Sometimes the fishermen are short of bait and are obliged to use small crahs. They use trammels to catch bait. Not many crabs are caught in the trammels.

ORABS.

LOBSTERRS.

They break them up before they are taken out of the net, if they are caught, and use them for bait. Does not think a close time for crahs necessary. Could remove the berries from a berried lobster. Could keep the lobster LOBSTR till also got rid of the berries herself. Has put lobsters in a store pot without herries, and found them 'full of barries in three weeks. Does not think much store pote.

harries, and found them full of barries in three weeks. Does not kinks much of a law which would probably the capture of betried lobsters. Cannot eated lobsters under by inches long. Does not want any law, and is in favour of free trade in fishing. Is ready to supply Mr. Blackwell if he will give him his price and take all his catch. Cannot cell him one or two picked fish. (By Mr. Buckland.) If he wants but he must have it, whether it is small crabs or not. If a law were made to throw back berried hens, many fishermen Berried.

would not go to sea fishing for lobsters. Could not keep berried hans in pots in had weather. The sea would dash the pots to pieces. Crabs and lobsters, some years ago, came to a certain ground near the Longships, and were as thick as possible, even when the fishermen left off fishing in September. Migration. When the fishermen went book in March and April to look for them they were all gone

THOMAS JACKSON, of Porthgwarm. Is a fisherman. Has fished for orabs, lobsters, and cray-fish for 35 years. The fishery has decreased during the last two years, so far as good fielt are concerned. She crabe are as plentiful as ever. 40353

Noemles.

A little insect, of the shrimp tribe, appeared near the Logan Rock 12 years ago. CRABS. Thinks this insect ate all the bait from the pots, and drove the crabs away. Does not know the name of the insect. He crabs were never thicker than they were in the month of April, 1873—three years ago. A heavy storm came on and all the be crabs disappeared. Has never caught large crabs in any and at ine no crube disappeared. Into never course large crisis in any quantity since. During the cattery winds each are allowys interiors, and no fine and the course of Migration.

CRAY-FISH. Migration. CRABS.

and task 128 pons, but only got two erry-tim and one lobster. Where the In own past of the sat, from Rumel Stone to Stilly, good lobsters and cray-tin see to be cought, larger than claw-here. The cray-tim necessarily appeared to the seed of the sat, from Rumel Stone to Stilly, good lobsters and cray-tim see to be cought, larger than claw-here. The cray-tim necessarily appeared to the sat, the same than the seed of the same than the seed of the inches across the back. None are sent to market smaller than this. It is very rars to get to remail a each our the light and Scotch nounts as on the fat coast of England. A law prohibiting the capture of 5\frac{1}{2} inch crabs would destroy the fishery on the East coast. Lobsters on this coast are also large, 13 inches and npwards. The tide runs at Porthgwarra at the rate of six miles an hour. The bottom is rocky. Thinks crabs and lobsters live chiefly on shells, whelks, &c. The feeding ground is very good.

(By Mr. Walpole.) When he first began fishing he fished at Penberth. The Portbgwarra boats have increased, and there are six boats now while there

Road

Weather.

were only one or two that he can recollect formerly. The average take ner boat were only one of two that he can reduced termenty. The twentyee that per local to the control of The larger ones are used for bait, the smaller ones are not good enough for this purpose. Old she embs are used for bait. this purpose. Old size crabs are used for hast.

Richtand Dawy, Porthgwarm. Hast been as fisherman for 24 years. Has

Richtand Dawy, Porthgwarm. Hast been as fisher as was with bis fables,

fished at Porthgwarm all that time. When he began he was with bis fables,

and had the only beet in the place. Has spoken to a man 70 years old who

said that more fish are caught now that when he was a boy. He need to part

he work's take in a flow pole two that when he was a boy. He need to part

he work's take in a flow pole two that which pole Thomathy. Used to each 500

on the work's take in a flow pole two.

Boste

Bristol. This was an an average take. An average week's take now is 1,200 ceabs, male and female, and perhaps 20 lobsters. There are now six boats. ceaus, make and retinant, and permaps 20 souscess. I have no now man owners 22 years ago there were from 40 to 50 pots in his father's boat. Between 50 and 60 pots are carried in a boat now. Works harder than he did 24 years ago, and goes further out to sea. Believes one boat working same number of hours as they worked 24 years ago, and confined to the came ground could catch more crabs than his father's boat did then. Begins fishing in March, looking for cock crabs. The cold in the spring keeps back the hen crabs. When the warm weather comes he looks for hen crabs and catches fewer cocks. After the hen crabs get scarcer in August and September, he looks out for cray-fish.

or 600 he and she crabs, and 10 or 12 lobsters in a week, and send them to

leasen for Mioration. LOBSTERS. Security.

Catches spawning lobsters from one end of the season to the other. Pots are kept out all the year round A law making crabs under 5½ inches unsizeable might deprive the fishermen of a few ben crabs. White crabs are not fit to est. The Billingsgate salesmen return them. They are so thick it is not necessary to have a law to prevent their capture. Other fish eat the soft crobs. Cannot afford to break up edible crabe for bait. They are all sent to market. If it were flegal to kill berried hens, gentlemen would suffer and flahermen too. Thinks the natural destruction of young shell fish by skate and cod is ton times greater than that caused by fishermen. Skate and cod are some-

Berried. Enemies.

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times full of small crahe. The Porthgwarza fishery is very flourishing and it is not possible to improve it hy legislation. Is not possible to improve it or juguitation.

If the property of the property

said 10 or 5 years ago, or last year. There are more to be caught this year than there were 40 years ago. At that time there were five or six hosts at Penberth, and they used to go every Monday to Mousehole for bait. The fishermen Bait.

used to buy skets from the Mousehole people. He went on for a year or two
like this and then went to see. Returned to fishing 14 or 15 years ago, and
found the system of huying helt at Mousehole had been done away with, and

that the fishermen depended on spider crabs, and that they balted wrasse poss and lines with them and so got their own hait, which was much better. Would not object to a 51-inch gauge for crabs. Merchants cannot keep the trade with smaller crahs. It does not pay to cend away smaller crahs. He had Ls. for a hundred little crabs.

Lobsters are not so thick as they used to be, nor are they so large. Does not withink this is due to over-fabling. Crash this year are thicker than ever.

Does not want any legislation at all. The fishery depends on the weather and Decrees. the supply of bait. Hot weather is necessary for good crob fishing. Crabs will forestell the weather 24 hours beforehand. Small crabs are very often broken up for bait, and the practice cannot be stopped unless a policeman goes out in

up not out, and the practice cannot be stopped unless a pole-cennan goes out in "wanter overy beat. It takes longer to each hait limb to hail all the pole up. He catches his own hait in a teammel net. Is obliged to stop fishing in this autumn (Soptember) through stress of wasther. This year his eart was cut pitchers/fishoff by the Mount's Bey lishing heats. This happened two meaths ago, 60. Fishes in 30 to 35 fathoms of water. Catches most crabe sit night. Tolinks

cray-fish are falling of (By Mr. Welpole.) The crahs are not so thick as they were ten years ago, Darrease, but the she crabs are as thick, or thicker. Cannot account for this, unless the cock crabs resort to different ground. It is a question whether trawlers do not gatch grabs outside. Thinks cock grabs come in earlier than she crabs.

CAPTAIN HENRY RICHARDS, Prussia Cove. Has been a fisherman for 50 years, generally at Prussia Cove, but has fished all round the North Channel. 50 years ago there were two boats from Porthleven, which used to come every year to Prussia Cove; and three boats as Prussia Cove. There are now mind boats. Toy fish with three strings of pots, and 15 pots in a string. The

pots are put in a civing about 40 fathoms spars. The method is just the same now at Frustia Cove. At the Land's End the pots are 15 fathoms spart. Fishes the same ground as he used to fish. The fish are not a quarter so thick Decrease. as they were formerly, unless you go a long way off. Thinks crabs and lobstern are over-fished. Cray-fish have not come in in such numbers as they used to. CRAY-FISH.

When he began fishing 50 years ago he could take a dozen fish a day, i.e., a percent. dozen of 13, and the usual description of fish. Only had eight pots to a string then. Now an average catch would not be half-a-dozen a day. For three or four weeks he went out S or 10 miles, and found the fish as thick as ever. Thinks in a few years the fish outside will all he cought too. The Porthleven hoats, Boxts.

when be was a boy, were only 16 fest long. Now they are 22 feet long hecoust they have to go further out to sea. Many a time, when a boy, be caught 3s worth of crabs in an hour, and normalays hoys cannot catch 3d. worth a day.

Recommends that all spawning fish should be returned to the water. Has growning known them to spawn in his store pots and in the wells of the smacks. Three years ago the smacks did not come for 10 weeks, and the crabs were stored for Smacks. that length of time. When they were taken out they were found to be full of spawn, though they were not in spawn when they were put in. All spawn cubs and all berried heas should be kept until the spawn is abot, or else Store pair. returned to the water. Thinks they should not be sold when in spawn. The fish might be kept in floating cruives. The young lobsters could have no

difficulty in getting out of the cruives. Buyers prefer berried hens. A

CRABS.

LOBSTERS.

CRABS, Weather.

CRAY-FISH.

CRARS. Microtion.

LOBSTERS.

LOBSTERS.

shotten lobster is not so good as a herried one, and if the shotten lobsters only were esten they would not be so good

Would rather have small she erabs than big ones. Always throws overboard small she crabs. Uses trammel nets for bait; estehes crabe in the trammels, CRABS. Store pots.

and sometimes takes them out and sometimes kills them.
(Exemined by Mr. Backland.) Lobsters and crabs are all put into evaives. The craives are 9 feet long by 3 feet wide by 18 inches high, and divided into three compartments to separate the fish and prevent them from fighting. A crab is the king of the sea. A she crab will spawn in November. Has found Soguetier. them, after being in a cruive 10 weeks, full of spawn. A lobster after the big

shot her spawn is not in good condition.
STRPIEN BOND (recalled). The crabs are in spawn in February and March, and not in November. JOHN KELYNACK. Lives at Newlyn. Is about 80 years old. Never in his life caught crabs and lobsters. Has heard old men talk of the fishing, and agrees with the evidence offered by Captain Richards. There are very few crab

Sennen, Monday, 18th September 1876.

Popupur . FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

No degrees.

pots at Newlyn.

RICHARD NICHOLAS. Has been a crab fisher for 40 years. Crabe and lobsture are no scarcer than they were. Fish are no scarcer. The price is better, and the fishermen get more money. She-crabe have been thicker the last two years than ever. Fishes from the Longshipe to 3 miles castwards. Catches crabs of 4 and 5 inches. Merchants will not buy crabs under 5 inches. Uses 10 or Used for bail. 20 crabs under 5 inches in a day for balt, and those that are not used for built

are thrown overboard. There are 22 boats here now, 40 years ago there were just as many. Would be very corry to hear of anything to be done to interfere with the fishery. They want to be left alone. JOHN GRORGE, Has been here 20 years. Crabs and lobsters are just the No decrease.

same as ever. They fetch a better price, and the fichermen make more money. They are sent away by rail from Pensance. Merchants will not take crabs under 5 inches. Thinks orabs shoot their shells once a year. Has found them every year in a certain hole with their chelle off in March and April. The Costing their fishing ground extende from off the Land's End to Cape Cornwall, 4 miles eastwards, and 3 miles esawards. Two lobeters under 11 inches go for one LOBSTERS. The largest lobuter he ever saw was 13 lbs. The men do not fish here till April, and leave off in August. Does not want any interference with the Sunson for.

fishery, but desires to he left alone. William Grorge. Agrees with his brother (the last witness). There are Terresta. more crabe and lobsters than ever. The railway has done good for the fisher-men. The fishermen continually shift their ground. It would make no difference to put back berried bens,

N.B.—There are between 60 and 70 fishermen at Sennen : about 30 were present at the meeting, and agreed with the above evidence.

Cadgwith, Tuesday, 19th September 1876.

PRESENT : SPENCER WALPOLE, Esquire.

EDWARD RUTTER. Is coxwain of the lifeboat. Has been erabbing 20 When he began there were about five boats, now there are 10 boats. The fisherman fish on much the same ground as they used to, but go a little further out. The ground extends on both sides of the Lizard, 4 miles west.

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Posts

and 4 miles cast, and 4 miles south. The fishermen go beyond Kynance Cove LOBSTERS. on the west and Innis Head on the cast. 20 years ago the average taks per Made of countbost was 20 fish. The method of counting was, lobsters over 11 inches counted age one; two crahs over 8 inches counted at one; two lobsters under 11 inches counted as one; four crabs under 8 inches counted as one. A fair average now-s-days would be about 14 fish, counting lobsters over 11 inches as one fish, two lobsters under 11 inches as one; crahs under S inches as one fish; and two crahs under 8 inches as one fish. Fewer fish

are caught in each hoat now, but the whole number of boats catch more in the aggregate. The price now is 1s. a fish, and it has been 1s. 2d. Sells his fish Price. to Mr. Locke, of Southampton. The price when he began was 10c a dozen, of 26. Some easons the crabe are very searce, and sometimes they are very spentiful. There have heen some years when even spider raths were searce, and hardly one could be caught in a day. Now they are very plentiful again. There are hardly so many fish in the ground now as there were 20 years ago. Thinks the scarcity is due to over-fishing. Lobsters are in about the same No decrease. quantity as they were 20 years ago. Thinks spawn crabs ought to he thrown back to the sea. If spawn crabs are caught, it is in March and April. There are very few of them, and to throw them back would make very little Spassing. difference. Would have no objection to throw hack all small crabs. The Gasya. gauge proposed by the fishermen of St. Mawes, viz., 6 inches, would be too large. In Falmouth Bay the crabs are less plentiful than at the Learnd, but they are larger. 5 inches would be quite large enough for he crabs, and 4 inches for she crabs, at the Lizard. Thinks there is no falling off in she

crahs. Does not think it necessary to have any gauge for lohaters. The fishing begins in the middle of March or April, and ends about 20th September. The rest of the year is a natural close season. The fishermen break up orals for bait from Midsammer to the end of the season. Very Uced for bait black ones and off ones are broken up when hait is source. Uses trummel nets for catching bait, and catches crabs in them, but the crabs are not smeahed

up. Small crabs would not be broken up for bait. Gets a third of his living with his trammel net, and one third of the shell fish are taken in the transmel. A good many cray-fish are caught on the const. They come CRAY-FISH.

ANTHONY JANE. Has been fishing 43 years. There were six or seven boats Migration. at Coolgovith and five at the Lisard 43 years ago. There are ten hoats here now, and two at the Lizard. Thinks the crais are more plentiful than they Books were. This last year has been a decent year. A little rough weather is good for the crabs; smooth water and warmth is good for the cray-fish. Thinks each loot gets as much as they did 43 years ago. The price is better and the earnings are greater. Lohsters are just as thick as ever. Is very well satisfied with the fishery. Has heard Mr. Rutter's evidence about a minimum size. for crabs, and thinks it would be a good thing to have a law to save he crabs of 5 inches and she crahs of 4 inches. Cannot say whether a she crah of 4 inches has spawned. Has only seen one or two spawn crabs, and thinks a crab of 4 inches may have spawned. Does not think it necessary to have a mini- spacesing. mum size for lobsters. Rarely estelies lobsters under S inches, and does not keep them when he does. A law of size for crabs would not hart the fishermen and might do them good in the end. If he could not use trammels it would hs of no use to go on with the business. Has broken up as many as 20 or 30 crabs for bait in a day; but does not now break up so many in a season.

There are 40 to 50 trammels in Cadgwith FREDRICK STRPHENS. Has been fishing 28 years at Cadgwith. Thinks No decrease, there is very little difference in the number of crabs. They wary in different cannons. He fishes on the same ground as formerly. Lobsters are the same as crahs. Seasons vary. There is nothing the matter with the fishery. The average number of pots to a lost is shout 40. Six strings to a host, and Roads. average admirer or poss to a none is about 70. Old strong of a most six or seven pots in a string. The pots are set about 10 or 15 fathorm apart. Would like to have unsizeable crabs returned to the water. Thinks the size should be about 5 inches for he crabs and about 4 inches for she crabs. Gasps. Thinks, however, that a law probibling the capture of any crabs under 5 inches, male or femals, would do no harm. The law must apply to huyer, seller, and catcher. If people did not purchase small crahs no one would sell them. Lobsters are not decreasing. Does not catch so many small

LOESTERS.

CRABS.

LOBSTERS. No decrease. Store Pots.

lobsters, and ceareely ever sees one so small as 6 or 7 inches. It is not necessary to have a gauge for lobsters. Very few berried hens are caught; but they are found all through the year. Cannot say whether it would he a loss to throw back all berried bens. Keens his fish in store pots, not in ornives, and keeps them there a week or nine days. The smack ought to come every nine days. All the fish go away by sea.

Migration.

CRAY-PISE. The crav-fish are migratory and vary in number from season to season. Has caught 50 or 60 a day, in come years, and in others not more than 12. Gets the same price for cray-fish as for crabs. Is very well satisfied with the ctate of the fiel CRABS.

Gauge. Price.

JAMES MITCHELL. Has been fishing about 10 years. Agrees with what has been eaid by previous witnesses. Thinks that it would do no harm if she crabe under 4k inches, and lobsters under 7 inches were thrown back to the sea. Does not extch on an average one 7-inch lobster in the season. Fancies fish were more plentiful than they are now. Goes further out to sea now, and gets as much money, but does not get quite so many flish. If prices had remained the same as they used to be it would not pay to follow the fishery. When he was a buyer he gave 13s. a dozen of 26, now the price is on an average 30s. per dozen. Thinks See inches would be too large a gauge for lobsters; but catches very few so small as that. The pots are made hollow, and are 2 inches from rib to rib; they fish better this size than when made closer. The fishermen make the pots themselves, and they cost about 24s. a dozen. The best quality of crabs

Pole. Price.

are those which are engit in trammel nets.

ANTHONY JANE (recalled). When he fished first he sold his fish for Ss. a dozen. The rise in price has done good. The lobstere from the Lisard ground are one-bland heavier than those in Falmouth Bay, but erabs are smaller. EDWARD RUTTER (recoiled). The Coverack fishermen come down here to the Cadgwith ground. But there is a ground from Coverack to the Manacles. This ground is better than the Cadgwith ground. The crabs there are better but carcer than at Cadgwith. The Mullion men have been doing less fishing The weather has been bad. The Cadgwith ground joins the Mullion ground. The crabs from the Manacles are best, the Lizard crabs come next, and the Mount's Bay crabs come last. There are four boate fishing at Mullion; they are more exposed to the weather than the Cadewith heats.

The Ship Hotel, East Loce, Wednesday, 20th September 1876.

PRESENT .

FRANK BUCKLAND, Esquire. RICHARD LETTLE. Is 50 years of age. Has been fishing for crabs and lobsters

Decrease. Close tiens. for 20 years. Crahe and lobsters have diminished considerably. 20 years ago there were six or eight crabbers, and now there are 20. Recommends that all crabs under 5 inches should be thrown back, in order to preserve the fisher Fishing goes on all the year round, and the season should be shortened. The fishing time should be from 1st March to the end of Angust. This would allow time for crabs to breed and for the little ones to grow. Lobsters would also be increased in numbers. Loheters are caught full of spawn in March. April, and May. After this they disappear. About June they fall off. The are caught again in August, when they are "hollow," and looking for food,

LOBSTERS. Sequestar. Micration. CRAY-FISH.

and go into the crab pots in search of food. The smallest lobster he ever saw was 5 inches long. Cutches hundreds of prawns but no small lobsters. The cray-fish are all gone. The smallest crayfish are 74 inches long. 10 years ago the pots used to eatch in one morning more cray-fish than

Dreresse.

they do now in the whole season. ited image digitised by the University of Southampton Library Digitisation Unit

LOBSTERS. The 5-inch gauge should be applied equally to be and she crabs. The LOSs smallest lobsters are 5 inches long, but not many are caught now. The Gauge. average size is S inches. All lobsters under 6 inches in length should be put If all the berried hens were put back the fishery would not be worth strending to. There are 40 men using 20 hosts. The average number of pots extrict is three dozen to a boat, or 720 pots in all. The fishing ground is about nine miles long and three miles wide. The depth of water from 1 to 22

fathoms. The fishing begins in March and the fishermen fish as long as as they can.

JOHN LITTLE. Has been erabbing 20 years. Crahs and lobsters are not so plentiful as they used to be. Crahs crawl according to the season. In spring the fishermen go further out to sea and catch lobsters. The ground at Loos has not been so much fished herause of the driving hosts, which hegin fishing

in July and go on till September. Lobsters are then in deep water and are Migration. in July and go on thi Ispheinher. Looser's are then in our water and we Appy protected by the drift nets.

"Buns" or "queens" or "abe" reals should be put hack to the water if would so inches long. Many crabs ran as small as 4 inches. "Sheer" or richt garcabs should always be returned to the see. The fisherman very often hereak syn. up small; enhs for hait. If the weather is hot in May no loothers can be

caught; if it is cool three or four dozen may be caught in a day.

In a month or two the hollow hens come. Little lobsters would go through LOBSTERS.

the bars of the pots, just like shrimps.

CRABS.

CEARS.

Always tries to keep a stock of bait. Generally keeps gurnards pickled in hrine. It is necessary to keep the colours bright because lobsters seem to be Zeat. structed by colour. The lobster ground is very rocky. For are set in the "pills," i.e. hollows in the rocks. They are worth 20s. per dozen; the lines are

pums, i.e. nosows as the rooks. Loop are worm 20s, per dozen; the lines are worth 1s. each. Chai live longer than the lobates in story ground.

Envasan Pravantar. Has been embland, for my the owned this stratefor for the lines of the lines

Crahs are fished for harder than they used to he on account of the increased price. The season begins in March and ends in July, Would propose that cock crabs of 5 inches and hen crabs of 4 or 45 inches should be returned to Garge.

the water. JOHN MERLAND, Has been 30 years crabbing. Begins fishing in February and keeps on as long as he can, sometimes to the end of September.

number of hosts has increased from 5 to 20. Cannot say if erabs have Bouts. diminished in number Cock crabs under 5 inches and heas under 4 inches should be returned to gauge.

Cook crabs under 5 inobes and ness times "intens a notice to recurrence to Gauge.
the water. Would not think as such a law oppressive. If herried hean were returned to the sea they would be enagiti again as "shollwar." Beeried heas might be happin pots and allowed to opsown there. Would like to have Appel Cross Time and May a close time; during those months erchs and hotstern would be when the contract of the property of the state of the contract of the state of the st

their spawn. Few small lobsters are chagar. Seatom sees drams in spawn; I amy are seen it is in May. They bury themsalves in the sand, Lobsters are not plugged here, their claws are out or tied.

WILLIAM PRYNKE. Thinks the increased price paid for orabs and lobsters

is the cause of their falling off. All males and females under 5 inches should be returned to the water. Many small crabe are broken up and used as bait. Used for both.
They are used as bait to eatch crabs. When the "hockers" knock off, bait is
coarce, and then eaths are used. From July onwards bait is scarce because
the fishermen are all gone pilchard fishing. Young crabs are valuable as hait

The natural close time for crabs and lobsters begins on 1st August. Young erals are the best bait for wrasse, and wrasse are an excellent bait for lobaters. Common sense leads the fishermen to spare the small crabs at all times except when they are required as bait. The fishermen agree with bim that when the bookers have done fishing hait is very scarce, and that under these circumstances it is absolutely necessary to break up small enths to catch wrasse, which are used to catch lobsters. The Looe men have sufficient sense to return the small crahe at all other times of the year.

at outain times of the year.

Ship Inn, Polperro, Wednesday, 20th September 1876.

PRESENT:

FRANK BUCKLAND, Esquire. Enwin Buckley. Has fished for crabs and lobsters for 30 years. There LOBSTERS. are seven boats now; 30 years ago there were four boats. Each boat carries on Decrease. an average 100 pois. Crabs have not decreased so much as lohaters. Conger cela Exemiss. destroy the lobsters when they are small. The fishermen do not catch so many lobsters now as they did 20 years ago. There are more pots out than there

were 20 years ago. At that time the usual thing was to have S strings, S pots to a string. Now there are 12 to 14 strings, and 8 pots to a string. smallest lobster he ever saw was 3 inches long. The average length is from 10 to 12 inches. Hundreds of lobsters have been caught during the last five Pots. years under 5 inches in length. All the fishermen agree that lobsters under 6 inches long abouid he returned to the water. The fishermen would gladly Remind o mone long amount for returned to the way. As a state of the pots. The dothis. They might he allowed to get through the hars of the pots. The fishermen could not afford to put back the herited hens. Crabs have increased during the last 10 years. Has always thrown overhoard spawning crabs. Would like to have a law to enforce this. "Buns" or hens under 42 inches CRABS Increase. Gange.

should be thrown overhoard, and oocks under 5 inches should be thrown back. RICHARD OLIVER. Has been a fisherman for 20 years, and has fished for crabs and lobsters, though not much. The ground begins at Loos Island, and is 6 miles long and 3 miles broad. There are 700 pots fishing there. Keeps out fishing as long as he can. Would not object to put back cook crabs under 5 inches, and hens under 41 inches, and lobsters under 6 inches. This is the smallest lobster. Berried lobsters should be sent to market; but herried crabs should be returned

Service. to the water. Sells his fish in Bath, Brietol, London, &c., and sends them away himself. When the smacks came here he used to get 12s. per dozen of 26, now his sells them by the harrel. The largest are 10 or 12 inches; the emallest are very small.

WILLIAM BUCKLEY. Agrees to a gauge of 5 inches for male crabs, 42 inches for females, and 6 inches for lobsters. Fishes further out at sea, in deeper water than he did formerly. Goes where the drift net fishermen do not go, out

waste times as did formerly. Goes where the drift het insterned do not go, out by a engle rook, where there are any quantity of hear cashs. Thuwken injure the each and lobstor fishery. The travels drag over the clear ground and exches-both crabs and lobsters. They destroy the spawning ground. Sixtees and rays are used as last. It is not osstomary to break up small crabs for leak, but "skurrise" or spider crabs are used to catch wrasse. The Bait. fishermen would not break up small crabs for hait unless driven hard, as it is

against their interest to do so. CHARLES JOLIPPE. Has bought crahs for the last five or six years, except hat year. Since the well hoats left off coming, the price has more than doubled. Large crabs are not so plentiful as they used to be. Twice as many

small crabs are caught here as used to be caught. Has bought scores under 4 inches long. Agress to the proposed gauge of 44 inches for female crabs, and 5 inches for male crabs, and 6 inches for lobsters. As a merchant he would like to have the ideas of the fisherman carried out. E. LAUGHEIN. Cossiguard officer. Crabs spawn when 3 inches across the back; they are then 6 months old. If you take away the male from the Spauning. female another will come. Has seen edible crabs the size of a pin's head.

They spawn in the spring and fall of the year. Large crabs shod their shell twice a year; small ones every four or five months. The largest crahs weigh up to 14 and 16h the Lobsters spawn all the year round. The smaller lobsters of 3 or 4 inches in LOBSTEES.

length go out through the pois. Young ones are found in the wells of carrying Sugaring. ships. Suggests that berried hens should be kept in pots till the berries are Berried. hatched out CRABS.

Crabs go from place to place, and sometimes travel 10, 12, or 14 miles. Some crabs got out of a store pot, and he found them again over 7 miles out at sea Micretion. in a few days. They like to get in shore to east their shells. The trawlers have torn up the feeding grounds of the crabs and lobeters, which are the Translers. sand plains between the rocks.

anne.

Polruan, Wednesday, 20th September 1876.

PRESENT:

FRANK BUCKLAND, Esquire. JOSEPH CLIMO. Has fished for crabs and lobsters for 20 years. Fish are very scarce now; this year's take has been very bad. There has been a falling off for the last 10 years. During that time the number of hosts has increased. Ros Some bests fish for 10 months out of the 12. There are no more fish caught, though more men fishing. Little time is left to the fish to grow or breed. Has purchased and sent to market thousands that ought not to have been caught. Some fishermen have returned the small male crabs to the sea-Trawling is very injurious, especially inshore. Thousands of she crahs are Tress Trawing is very injurious, especially insure. Associated of see, brought taken by trawiers. Has seen very large females, weighing 54 lbs., brought taken by trawiers. Crahs spaws in January and February. Once he spassing. had been fishing in Octoher, and had left some crabs in a store pot till after Christenss. In January every one was full of spawn. There were nine or ten crabs. Has never seen more than 10 crabs with spawn in the summer months. Crabs are very particular as to diet. They will not eat stale fish. The best Foot. hait are cod, gurnards, ray, wrasse, place, and soles. The head of fish is generally put in the post; the eye of a dead fish attracts the crais. Eight Bait. pots go to a "string." These pots are fished in from 7 to 25 fathoms water. In winter crahs bury themselves in the sand. In March and April many Bary Geoscies are cought with sand on their shells. As the summer advances they begin to crawl, and will sip one's fingers. In the winter they seem dead. Crabs have heen marked and found in a week or more two miles east of the harhour after heing "nicked." When they are not nicked they can pinch with their claws. When they have been nicked they cannot pinch. There should be no distinction in the measure for males and females. She crabs do not grow so long in the in the measure ror males and tensates. She cross do not grow so long in the shell as the males. Make under 5 inches and flexible under 45 inches should 6 super. be returned to the water. There are 30 females to one male. Fermiles do not grow so large as the males. The close season should commence on 18 October Close females and leave off on 18t March. Hundreds of boats go out on the 1st January and kill many spawning fish. The fishermen do not break up small crahs for hait, they can get 22, each for small crabs. It is a rare thing for them to break up the small ones for bait. He gives 22, aplees for them; if they are very small three count as two. Watery crabs are broken up, when they are getting small caree cours as two. Watery craim are proven up, when stey are genting hard after casting their shell. Lobsters may be seen in spawn every month in the year, at least from March or April to the present time. Cannot determine Spansies, the exact time for the spawning of lobsters. Lobsters will eat any kind of last, check stock fish, &c. They will take sinking hait. Crebs are quite Bait. the reverse. To catch them spider crabs or "corwichs" are used. If he gets a lobster with the herries ripe he takes them from the tail and throws them overhoard. Berried bens are not selected; they go together whether spawned Berried or not. Thinks if the fishermen were compelled to return herried hens to the or nor. I must it the historium were compensed to return betrieve stars to the water they would take out all the special control of the property of the star of the water than the star of They were from half an inch to three quarters of an inch long. The fishermen say there are 40,330 eggs in a lobster. No lobsters should be taken under Eggs of. 7 inches long; they are seldom caught under 9 inches. He throws overboard Gauge.

any he may catch below that size. s, per lb, is the right price for lobsters. The fishery begins to the west of Udder Rock; it does not extend east of that point. The western limit is one mile west of Gribhin Head. The total area is seven or eight miles in length, and three miles out to see. The Gorran houts fish outside the Fowey ground. They have larger boats. Crabs and lobsters come towards the shore in warm weather, and hury themselves in the winter. There is sand off Fowey, Close time.

with rocks and patches of sand to the east. Sometimes the pots get into pits among the rocks and are lost. There are six or seven boats at Fowey. No boats have more than seven or eight strings of pots; say 64 pots each, or 354 pots in all. The close season should extend from October 1st to March 1st.

Pishmongers' Hall, London, Wednesday, 1st November 1876. PRESENT :

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

CRARS Decrease.

CHARLES POLAND (enumined by Mr. Buckland). Deals in crabs and lobsters among other things; has been in business 20 years. Crabe have fallen off to a slight extent in number. The falling off commenced about 10 years ago; but during the last 10 years the number has remained stationary. The crabs are as large as ever; the decrease is in number. Gots a great many small crabs from Craster, Boulmer, Newbiggin, Chat Hill, Bilton, and other places in Northum-

berland. Obtains lobsters from all over Scotland, especially from the Hobsides and the Orkneys; they are being cought all along the Ayrchire coast. Lobsters come from Cullercoats, and some small ones from Dunbar. The size of crabs remains about the same; the price remains the same. Gets very fine lobsters from Ireland, but very few crabs. Plenty of lobsters come from Skye. Is in favour of a gauge both for lobsters and crabs. Doesn't buy crabs two for one in London. A gauge of 55 inches would seriously interfere with the crab fishery in Scotland. The Scotch crabs are a smaller race than the west coast crabs. The 5-inch crabs might be returned to the water. It would be an advantage to have these crabs returned all over England. Rarely gets

crabs in spawn. It would be an advantage to have these spawn crabs returned.

The fishermen might, however, have little compunction in taking off the Berried. spawn. There are not many soft crabs sent to the London market. Has seem lobsters 10 lbs. in weight. The smallest lobstere come from Ayrahire. LORSTERS. A lobster 24 inches in the barrel (produced) is too small for the market, and ought to be put back. The small lobstere from Bognor are caught in the ought to be put note. The small lobsters from Mognor are caught in the prewn pols more from socident than design. Is of opinion that no lobsters should be taken under 4 inches in the barrel. Gets a fair quantity of berried lobsters in the course of the year. They come from some districts in the spring, from others in the summer, and from others in the autumn. They are Gauge. Received. more rare in the winter. It would be an advantage to put back the berried hem; but thinks the fishermen would take out the berries. Burried hene are sought for at times in the London market, and at other times are a drug. The

berries are used for colouring sause and decersing fab. The cooks are anxious to have the berries. It would be difficult to obtain a substitute if the sale of berried lens were prohibited. Irish lobsters come plugged to Billingsgate; but it is very rare to have them plugged from other districts. Plugging has the effect of causing great anguish, and of ultimately killing the lobster. Plussing. has the effect or causing great anguint, and or unmascey string the lobber-News heard (copen) from report) of enab being put into cold water and gra-dually boiled. Gets a large supply of lobbers from Norway from and the midsummer. They omes over invariably after in well-of Norway from a both lobbers packed in charcoal. It is very one, and well of Norway from a both from an English and Scotch lobber. The English lobbers are specked; the Boiling.

Norway lobsters are very brilliant in colour without any speckles. Does not know what gives the colour to a Norway lobster when it is boiled. Is not in Norwegian. favour of a close season, because the seasons in Scotland and England are so very varied. Only recommends a 5-inch gauge for crabs, and a 4-inch gauge in the barrel for lobsters. It would be perfectly easy, if the sale of berried hens were made illegal, for the fishermen to remove the berries at sea. It would be Cauge. possible for these berries, if placed in certain places, to prove proific. They distinguish the ext of crabs in Billingsgate by calling them king and queen crabs. There is a close season for lobstees in Norway; but it is not strictly

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observed.

LOBSTERS.

WILLIAM BENJAMIN FISHER (exemined by Mr. Walpole). Fish-salesman at Billingegata. Over 20 years in business, and has been dealing in crubs and be designed. Over any years in ordering, and so better dealing in Norway lobeters. He she been dealing in Norway lobeters. He she been dealing in Norway lobeters. We will not the she will be she wil closs season terminates at the end of August for the whole country. He commences anding for the lobsters to Norway very early in the spring. Has sent in the saturan months, but considered it such an injury to the fisheries that he gave it up. Tried for three seasons, but it deslroyed the spring

tons us gave is up. Those on three converging fisheries ought to be closed. Cone time, throughout the autumn. There are very few lobeters caught in Norway in the autumn. There are very few lobeters caught in Norway in the autumn. There are very few lobeters caught in Norway in the autumn. At this time of the year 6,000 to 8,000 lobeters a week are received. at Billingsgate from Norway. Only one part of the Norwegian coast is

Begins to send for the Norwegian lobsters in March and April. The season is later as you get further north. Sends over welled smacks, and contracts for the whole take. The Norwegian lobsters are caught in The supply has fallen off during the last seven years, and he attri- Decreasecoops. The supply has maked on a dering to the subset this to the autumn fishing. 10 or 12 years ago used to have about 600,000 lobsters a year from Norway, from three districts only. Is now working six districts (double the amount of coast), and the six districts only produced last year from 400,000 to 500,000 lobsters. There has been therefore a very serious falling off in Norway. The matter has been before the Norway wegian Parliament now for three years running. A 7-inch lobets in Norway regain Petinnesis now for times years running. A 7-inch lobster in Norway in full price. Under that size half price. Believes task there is no gauge for lobsters in Norway. Out of 100 Norwegizal nobsters not 200 per cent, see under the 7-inches Heard Mr. Educad's recommandation of a 4-denied quage George in the barrel. This would be about 5 inches in Norwegizal polytes may be a size of the size of t incititation of this gauge, but it would be a serious thing to the Norwegian fishermen. In his judgment the Norwegian lobster is smaller than the Scotch. Does not get 10 per cent. of large lobsters. A two to three pound fish is a fair Norway lobster. Thinks a 8 sinch gauge would be too large for Norway;

75 inches would be quite sufficient. Would agree to a 75 inch gauge. Lobsters in a favourable passage reach Billiogsgate from Norwey in four days. In hot weather there is great mortality, and consequent waste. Gets very few berrisd lobsters from Norway. Doesn't know the reason Berried.

There are a great many lobeters come from France. They come from the Franci-Cherbourg coast and south of it. Thinks that perhaps 200,000 lobeters come to London from France. The quality of the French lobster is not good; to London from Prince. And quanty of the French Music in his good; these come by boat to Southampton, and theore by train to London. The tness come by cone to commanditum, and more of years to London. The loboter fishery in France is principally in the autumn—Jume, July, August, September. In August the French allow no herried hems to be taken, and the fishermen during that month scrape out the bearies. The French lobsters governing. are in season at the very time when the Norwegian lobstere are out of season.

A French lobster in October would be a good fish, a Norwegian lobster watery. It is utterly impossible, therefore, to institute any close senson in the London market applicable to all places and all localities. A few lobsters also come from Sweden. The Sweden season is rather earlier Swedish.

than the Norwegian season; and the Sweden fishery is being extinguished through the autumn fishing

through the manning for Norway is to close the Norwegian fishery in the Greeting autumn, and this therefore is probably the right course in the Helevides, where the fishermen wish to close the autumn fishing.

It would be very difficult to enforce local sensons. CRABS.

(By Mr. Buckland.) A 3 lb. Norway lobster is a fair size (frontor Strevenson (esussized by Mr. Bucklond). Fish merchant at Billingsgate. Has been established on his own account for 40 years. The crabs come chiefly from the West of England, and a very few small ones from erals come chiefly from the West of England, and a yary tew small ones from Soeland. The crabs have fallen off very much both in six and in number. Part falling off brann 90 years ago, and has been progressive. Used to buy large crabs from 7s. 50 %s a turn; they are now 15s. Cannot trell the cause of the falling off, but thinks it is due to over-flehing. By over-flehing, means

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taking everything and throwing nothing back, all the year round. The intromanny overtraining anni surovanig notuning mens, an the year round.

All differentiation of the state of the consumption and the supply. Fish now come from every past of Scotland, whence they never came before. Railways here, however, not only increased the supply, out there also dispersed it. The great towns, which used to be supplied from London, are now employed drong the control of the con CRABS.

Bradford are well supplied. Is not in favour of a close season, but thinks thest no crah should be taken under 5 inches. The London fish merchants would all he glad of this. Had three harrels of light crabs from Poetree this morning. They are valuelest, because there is little in them; but they are quite wholesome. It would be impossible to carry out a law making it illegal to sell light crahs. There are such a few of them that it would not be worth while to do so. It would be impracticable to have a law for putting back the herried orabs.

terried LOBSTERS.

Can't say whether loboters have been falling off on our own coasts. Used to get a great many Soutch bobsters in London which are now sent to other large towns. When the railway was first opened up, they had a large supply of Scotch lobsters; now they are distributed over the whole of the United Kingdom. The market for lobsters is liable to extreme fluctuation. A hox worth Sl. one day, with 60 to 80 lobsters, may next day be worth only 45s. A turn of lobsters may consist of different sized fish. The smallest fish are

Mode of counting. called worst Nancy; the slightly larger fish, hest Nancy. 80 fish: 40 hest Nancy, and 40 worst Nancy, make a turn. The best and worst Nancy are small lobsters, respectively 92 inches in

length, and 45 inches in the barrel, or 8 inches in length, and 55 in harrel the best Nancy : 40 of these make a turn.

A turn may also consist of hest doubles. These lobsters are bigger than A score and a half of large lohsters also make a turn, which in this case contains 20 good-sized lobsters and 10 higger still. Forty to fifty years ago

he has hought lobeters for from 11, to 31, a turn. At that time the turns of

lohsters were considerably higger than they are now. A fish put into a score now would have been a "best double" 40 years ago. The haskets are made smaller, tending to deceive the purchasere. Sees no remedy for this. The cause of the cheapness of lobstere then was the great supply from Norway, Sweden, and Heligoland. The Heligoland fishing is now extinct. The Swedish fishing is rapidly heroming so; and the Norwegian fishing is also falling off; they are destroying the fishery. Does not helieve that the Scott-fishing is becoming extinct. Lohsters which used to be 6d, are now is, and 18, 6d. Very few lobeters are exported from London to France. But lobeters are imported from France to London. Thinks that no lobster should be sold under S inches in the body, and 35 inches in the harrel. Doesn't see, however, how this is to be carried out. The fishermen would find means for

celling them. It would be possible to legislate for Billingsgate and the large markets, as the mlesmen would assist to carry out the law; and if the fishermarkets, is the measurement of the mean found that they were unable to sell them, they would put hack the small lobeters. The Norway merchants, however, sell very small lobaters; doubts whether their rale can be prohibited here. If they were permitted to sell small lohsters, they would handicap our own countrymen. mongers' Company appoint three very practical men to seize unwholesome fish, and these men could properly check the sale of undersized lobstere and crabs. There is a difficulty in throwing back the herried bens. They are generally worth twice as much as any other lohsters. The spawn is hruised and put into sauce, and makes better sauce than the lobster itself. In salads it is boiled and sprinkled over the saind. It is a capital article of food. The spawning hens are of value to the cooks, who won't have lohsters without spawn. The sale of herried hens must not be prohibited, as it would he preventing the

Spanning.

fishermen taking the most valuable fish. The production of the lohsters is so enormons that, if a gauge were fixed, the taking a few herried bens would make no appreciable difference. Berried hens are in the hest possible condition as food. They form fresh spawn immediately after they have cast their spawn. If they have no commo outside, they are full of the red coral inside.

Cannot tell how often a crah sheds its shell. If the sale of berried hens were prohibited the fishermen would remove the berries.

Some of the Iriah lobsters are now plugged, but very few lobsters are LORSTERS, plugged now. It has fallen out of use, time SF Peter Laurie took the matter, plugged now, routh, and deteriorates the falls. None but a fool up. The practice is very cruck, and deteriorates the falls. None but a fool would bud relate noold water. Many of them are stabled before shey are boiled. It is impossible to legislate on this subject.

ORABS.

CRABS.

LOBSTERS.

to a mysecular to separate on the suspect. Security Mr. Wight-Down't personnels and purpose and problems. Down't personnels and proposed and through the year. Beautiful produced in the London markets during the suitanns. These are described could read in the London markets during the suitanns. These are described could read the proposed could not the year cound. In old sures difficulty in Integrig the orbit country of the proposed country of the year cound. The during difficulty in Integrig the orbit country of the proposed coun

value of the lobster and crub trade. The turn of lobsters used to be from 12. to 30.; it would be now 52. to 82. LOBSTERS. The increase of price has not been so marked with crahs; a 1s. crab now price fitches 1s. 6d. or 1s. 9d. The increase in the price of lobsters is due to the falling off in the supply of foreign lobsters. It is not due to the increased population. The take of our own coasts has not fallen off; but the lobsters are more distributed over the country. As over fishing has led to a decrease of foreign lobsters, it may lead to a decrease of our own supply, but this has

not come yet, and the gauge is a sufficient remedy.

JAMES HARVEY (examined by Mr. Walpole). Shell fish merchant, of Floet Street. Deals largely in crabs and lobsters. Is a retailer. Prefers Norwegian Normepian Strect. Deals largely in erabs and lobsters. It a rebailer. Prefers Norwegan normegan lobsters to all others. Sootch the next. English (British) third, and won't take the Jersey and French lobsters if he can help it, they are slawys watery. The firsh lobsters are very root. The Norwegian lobsters eto in August and on't come in significant collections. The English, Sootch, and other lobsters Searn for don't come in significant collections. agrive all the year round. There are always some lobsters very light, but series all the year reund. There are always some lobusters very light, but there is no particular period of the year when the jobarts in in bad confidence. There are herized heats all the year round. The Obyer cryst and the confidence are not good unless of the year round. The Obyer cryst laws to the confidence are not good unless of the year of the year. They want in the Year of the year of the year. They want is in the Alberton West hotsets of the year of the year. They want is in the Alberton West hotsets of the year of the year of the year. They want is in the Alberton West hotsets of the year of the year of the year.

of water. All along the English Channel the lobsters are delicious. Thinks that no lobster ought to be sold under 10 inches in length (42 in barrel), Geogrand and is not apprahensive of this or the Norwegian trade. The Norfolk gauge of 7 inches would be considered in London "worst Nancy." A turn consists Mode of of 40 best Nancy's, 40 worst Nancy's, 40 best doubles, and a score and a half coasting. of large lobsters. If he wants the turn of the large lobsters, he must also get the turn of small ones. The merchants won't sell the big without the little.

Does not think that crobs are decreasing generally; has 400 a week, big and little. The price is rising, but this is due to the increased demand, and not to the Price. decreased supply. Sells nearly as many crabs in the winter as in the decreased unrayly. Soils nearly as many embs in the winter as in the summary, but froits as odd in the numers in the hot weather. A cook crub summary, that froits as odd in the numers in the hot weather. A cook crub such as the country of the sum of the same sum of the same single cook of the same sing, the cook of the same sing, the cook of the same sing, the cook of the same single country of the same single country of the same single same single country of the same single same s

we a serious injury to time acoust, manerment. He, however, never burys Scotch crabe if the can help it. Cook orabe are the best in the spring. Hen crabe then are an ight serious a relative time are an ight serious desirable. The hon crabe would have the berries under their tail in the beginning of December; they then get under the rocks and their tail in the beginning of common the caught. This applies chiefly to English crabe. There is no time of cannot be caught. the year when both cock and hen crabs are both out of condition.

(By Mr. Buckland.) Is aware that very small lobsters are sent from Norway. LOBS
The smallest are now about 7 inches. Small lobsters are also taken in the Gauge.
prawn pote at Bogner and Sciens Bill. It would be very advisable to stop

these small lobsters being taken. Knows Humble. The crabs and lobsters are kept there in boxes for the Store sets. London market, and taken out as they are wanted.

The hen crabs are not good in the spring, but cooks are then at the best. Prefers cook crabs in the summer, but in August and September the hen crab

JOSEPH GOLD SET SECURITIES OF SECURITIES OF SECURITY SECU but the small retailers buy the small crabs and lobsters cheap

brushed out from under its tail before it is sold. Would have no crafts sold under 6 inches. Thinks that the retailers generally would approve this gauge, but the small retailers buy the small crabs and lootsers eneap.

Hann's Bustan's (consisted by Mr. Welgold). One of the fishmeters as

Billingsgate. Is appointed by the Fishmengers Company. It is his duty to

import all fish brought into the market, and judge whether it is fit for human

food: if it is unfit, to condemn it and esize it. This applies to shell fish as

well as all other kinds. There are three officers in this position. Theoretically all the fish brought into the market pass under the cognisance of himself or one

of his colleagues. Has no instructions to ascertain whether the fish sold can be legally sold: only looks to its condition. If a gauge were fixed for erabs, no segany sour; unit score to me communent. It a gauge were intended for estars, there would be a difficulty in carrying it out. Hardly sees one out of every 50 orabs sold. Only sees that they are slive. The size of the crash in most cause could not be assertained till the fish was exposed for sale by the rotation. Sometimes 120 packages of crabs arrive by the same line of railway; they are scattered over the market, and if there were 20 fishmeters they would be unable to secevery package. The cellers even now try and set the fishmeters at definece with respect to the sale of unsound fish, and they would do so with live fish. If it were illegal to buy, sell, or take unsizeable crabs, it would act as a great deterrent to their capture; and this result would be increased by the know-

ledge that the fishmeters would seize unsizeable fish. But the only way to stop the traffic would be to make it illegal for anyone to have an unsizeable fish in his possession for sale. In this case it would be possible to stop the traffic in unisscable crabs and lobsters. Thinks that a lobster over 8 inches might be sold. Under that length abould not be cold. Thinks a barrel gauge easier than a gauge of the entire length. Is in favour of a 5-inch gauge for

(By Mr. Buckloud.) The crabs come to Billingsgate in backets and in

Enward Winder (examined by Mr. Buckland). Succeeded to Mr. Scott's business in the Haymarket 12 months ago. Has a very large demand for crabs and lobsters, especially in the summer months, July for preference. This is

barrels, both dead and alive. Never heard of crabs and lobsters being packed

because oveters are out of season. His experience does not extend beyond 12 months. 'He doesn't care for lobsters under 9 inches, prefers 12-inch lobsters.

There is no greet demand in his business for burried hers. Doesn't care to have erabe under 6 inchest. Wouldn't object to gauge of 6 inches for embs and 9 inches for flobeters. If it were made penal to sell them anywhere, it would

ston the catch on the sea coast. The mere fact of a law would stop the sale. Tradesmen do not like to see articles which it is illegal to sell exposed in their (By Mr. Walpole.) In his opinion 5 inches is too small for a crab, and

would prefer a 6-inch gauge. Thinks this might have a prejudicial effect

on the smaller tradesmen in the poorer districts of London. Thie, however, onght not to influence Parliament in considering the object in view.

Prefers a 9-inch gauge for lobsters, and does not think that it would be a serious injury to the trade eventually. It would be ludicrous to go below the

HENRY BARRER (enemined by Mr. Walpole). A fish salesman in Billingsgate, established 40 years. His own experience extends for 29 years. Deals fargely in shell fish. Obtains his lobsters chiefly from Scotland Devenshire, Jersey, and the Channel Islands. The Scotch lobsters come principally in the colder months, the English lobsters from the spring to the autumn. The Sectch and English lobster seasons are perfectly different.

Thinks the difference is due to the difficulty of carrying the lobsters from

crabs. Smaller crabs should not be sold.

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spring of the year. A herried hen is worth double as much as any other lobster. Some men get a good living by buying spawn from retailers, and

crabs being returned to the water. Gets most of these white crabs in the

They are very small, and some of them are watery. Is in favour of these white

CRABS. is at its best. The cock crab is good all through the year. Often gets baskets of embs from Scotland. There are a large number of white crabs among them.

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LOBSTERS.

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LORSTERS.

CRABS.

LOBSTERS.

essent for.

Scotland in the hot weather. Gets lobsters from all round the Scotch coast, Scothani as the het weather. Gets bolters from all round the Scoth ceast, projectly from the Helindius unit to Chrayar. A good many from the projectly from the Helindius unit to Chrayar. A good many from the mental Rocket, and Scoth Unit. Some of the Helevisk lobsters always discretely reason and the Chrayar and the

LOBSTERS.

CRABS

CRABS

London in stormy weather.

Thinks legislation for lobsters is very greatly required. A gauge is very Gauge, necessary. No lobster under 8 inches should be sold. Is in favour of preserving the berried hens. The berried hen is the most valuable of all lobsters but not for the market, except during the London eason. If the sale of berried hens were prohibited, Sahseraen would be tempted to remove the Berried. berries. But a practical man could always detect whether the berries had been perries. But a present in an about a way of the straight of the perried hen which had just shot her bearies, and a berried ben whose berries bad been removed srtificially. Under all circumstances is, however, in favour of pro-

hibiting the sale of berried lobsters. Thinks the berried lobster more valuable than the lobster with coral in her. The cooks, if they can't get the berries, will have to take the coral.

Lohsters are very thin in June, July, and August. This applies to West of Regiand lobsters; but it is impossible to make a close season. There are always good lobsters among the had ones.

Crahs come from all round the coast except Wales. The supply is falling off, especially in the West of England. There are two species of edible crabs:
the West of England crab is a large crab; the east coast crab is a small crab.

Decrease.
A gauge that would suit the West of England would not suit the East coast. Thinks that no crab under 5 inches should be taken or sold. It should be Gonge, illegal also to sell crabs with spawn under the tail. Many crabs in spawn Berried.

come to the London market. Couls we not horizontal markets. (By Mr. Backleard,) The small lobsters come from Bognor and Skye. Their sale should be prohibited. The crobs live better when they are packed close together. It would be very difficult to enforce the return of beried beas. Cray-fish are dying out; they come from the Corninh coast and Soilly. They

frequently have them full of spawn, and these he thinks ought not to be sold. The cray-fish trade is quite as important as the lobster trade. Cray-Decrease fish are dearer than lobsters. They are 2s. to 2s. 6d. each when the average nation

aise. Never heard that the cray-fish are a migrating fish; they can always be caught in Scilly. Thinks that no cray-fish under 10 inches should be taken. Gauss. Has bought 150 cray-fish at 9d.; they are now 2s and 2s. 6d. each.

Crahs short their shells in the spring time. The soft crahs ought not to be

sent to London, but returned to the water uninjured. This is very important to the crabs and to the London tradesmen. There are a large number of them soft. come in the spring of the year from Cornwall. The Scotch crabs come the same way, but they are not so important.

JOHN SAMUEL, Second Warden of the Fishmongers' Company. The Referencest course of the Company are derived from the Charter 2 James L, 30th August of loss. Will read the portion of the Charter conferring the powers of seizure of unwholesome fish :-

"And moreover we will, and by these presents for us, our heirs and successors, we grant, to the same Wardens and Commonalty of the mixtery of Fishmongers of the city of London, and to their successors. That the same Wardens and the Assistants of the mistery of Fishmongers of the city of London aforesaid, and their successors which for the time shall be, from time to time hereafter for ever shall have, make, and use within the city of London and within the liherties and suburbs of the same, and within our borough of Southwark aforesaid, at all convenient times, the full and entire survey, search, government, and correction of all and singular persons, denizens, and strangers, and of all others whatsoever, of whatsoever art or mistery they shall be selling, or having, possessing, or keeping to sell, any saited fisb, saited herrings, fresh fish of the sea, salmons, stock fish, or any other fishes whatsoever, within the Enforcement

mm eity of London, libertine or niverbie of the sume city, or within the same benomesh of Southern, and the libertine and precision to the same benomesh. And that is shall be lareful to the Wardens of the same mixture for the time. And that is shall be lareful to the Wardens of the same mixture for the time of the same strength of the same through the same could not be the care and of the same through the same could not be the care and of the same time to the same through the same city and become, and other places whether the same be same city and becomes, or either of them, when any such added this, andeed hearings, fresh that of the same standards, and to they are same differ all to same of the same through the same through the same city and becomes for man's body and fit to be said or one. And if the same by a distinct so the same standards is such a same through the unique same classifier to the same Wardens of the Matery of Philinogram of the same for the same through the unique same calling the same through the same through the same same continues and calling the same through the same thr

It would not be possible for the officers of the company to carry out a kay of gauge under the powers contained in their Charter. But the company would be willing to undertake the duty if Parliament would confer on them the powers for doing as, for the purpose of protecting the fallery, and for the better provision of food for the London market; and would be willing to innur x reasonable expresse with this object.

Board Room, Aquarium, Southport, Friday, 27th October 1876.

PRESENT:

FRANK BUCKLAND, Esquire.

CRABS.

Jarna Crook, fish deslay, Claspel Strees, Southport. Has been in the trade for the last 25 years—first in Manchester and laterly in Southport. Has dealt in orale and lobsters during that period. Considers the supply of crabs lass false off considerally during the last 16 years. During that period there that the consideration of the consideration of the consideration of the for the Southport market comes from Southard in agrang and from the life of Man in the middle of numer. In winter very few are vosived, and they are

Total crist. Purchases from the Mandatons and Harrysol markets through anthomer. The rote of each has dealbold in the last to types, and the site and the site of the smallest are from 2½ to 3 inches. In a harrest of each in myear, ago all were is dealbold and the site of the harrest site of the harrest site of the si

Gang

CRABS.

CRARS.

amongst the others. They are very light, full of water, and perfectly useless for the table. These white-footed crain form from July to October. They soy. are a loss to his business, as he cannot sell them, and if his shopman send one out by accident it is returned. Sending out such erabs injures the business of the fishmonger. It is very desirable that the sale of these white crabs should be prohibited. Would welcome an Act of Parliament prohibiting the sale of them, and it would benefit the public at large. The "spent" crubs are those which have recently shed their shells, and upon which the new shell has not hardened. Crab fishermen are in the habit of killing these white crabs. Such embs should be returned into the water in order to grow into hard embs. Is also a dealer in lobsters. Lobsters have not fallen off in the same manner LOBSTERS.

as craits, but are very much dearer than formerly. Prioes fluctuate according price.

to Billingsgate prices, which vary with the supply from Norway and elsewhere.

They have lately decreased in size very greatly. No lobsters should be sold under 9 inches, measured from the head to the end of the tail. Lobsters that size and larger could be sold better than smaller. Small lobsters should be returned to the water. Hes received them a small as 4 or 5 inches, but such Gampesmall ones should not be allowed to be sold. Often receives spawn lobsters. Is now receiving great quantities of spawning lobsters from the Orkneys.

Orkney lobsters are the best and very large. The spawn is used by cooks Berries. to colour the sauce. It is a very great waste. If the public knew that the same in an ordinary same boat represented 1,000 lobsters they would not continue to use the eggs, which only please the eye, and in no way improve the flavour of the sauce. Has known the spawn when scarce to be sold at 6d. an ounce. There should be a close time for berried lobsters and small lobsters Giose time. from 1st July to middle of August. It would be better if they were both put hack into the sea at all times. All lobsters under 9 inches should be put back. hack into the sea at an times. An ionaccu unsees an analysis when they have just after spawning. When they have just Lobsters are not good for table just after spawning. When they have just have just and the start instead of being bright coloured. The spawned they are black under the tail, instead of being bright coloured. Isle of Man crah fishery is nothing like what it used to be either in the size or quality of the fish. If the foregoing gauge and close time were enacted, it would henefit the trade of Southport, and increase the general supply of crabs

and lobsters. If berried hens were put back into the water lobsters would be

more plentiful and cheaper WILLIAM HOWARD. Has been for five years a fishmonger in Southport. Is in the habit of dealing in crabs and lobsters. The hest season for crabs is gergen. Those sold in Southport are from the Isle of Man, Ireland in the summer. These sold in Southport are from the Isle of Man, Ireland and Scotland. In the summer most of them come from the Isle of Man, and they are the best. Crabs are small this season, and a great deal dearer and scarcer than last senson. They generally run from 5 to 8 or 9 inches. (Produced two crafts, one 41 inches, the other 41 inches,) Often has them smaller than that in a harrel, many of them only 3 inches. Seels small crabs are not profitable. Victors and hotel-keepers will not buy them. Often has to throw them away. There should be a probinition of the sale of all crabs Gauge, under 5 inches at any time of the year. There ought to be a close time for Constitute. craiss from August to Auril. Just now not one out of twenty in a barrel are fit for sale. Often finds "snent" crabs beginning about August and getting Softworse during the winter season. Cannot sell them, and often has to throw them away. If customers buy them they do not find them good, and bring them back again. There should be a law to prohibit entirely the sale of spent rules; it would increase business, and make crabs cheaper. Does not often have crubs with eggs under the tail, they are very rarely caught. Lohsters were scarce last summer, but are more plentful now, and weigh from one pound to three pounds. In a basket of lobsters there are always some small, LOBSTERS.

pouns a cance promise. In a consist of monaters over are aways softice Small, even less than a quarter of a pound. The small ones are not saleable. A lobster should not be less than a pound, which would be about 9 to 10 inches Gauge. Small lobsters should not be sold at all, and should be allowed to grow into big ones. The berried hens are valuable. The eggs are used for colouring sauce. Cooks always want spawn, and there is always a great demand for WILLIAM WRIGHT. Has been a fish dealer for between three and four years and for seventeen years a trawl fisherman. Has heard Mr. Howard's evidence and acrees with it. Small crabs should not be sold. The minimum gauge

40050.

CRARS. Gause

should be 5 inches. All under 5 inches should be an illegal extch. A full crab is 8 inches. No "spent" crabs should be sold, and all small lobsters should be put back. There are about 10 or 12 crab and lobster dealers in Southport. Thinks they would agree on all points given in the evidence.

Infant Schoolroom, North Sunderland, Tuesday, 14th Nevember 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

ROBERT PATERSON (examined by Mr. Walpole). Of North Sunderland. Lived There are twenty times as many bosts new. He began fishing at 13, and

stopped 13 years ago. When he began, crabs were of no use; there was no sale

Roafe.

47 years at Newton-by-the-Sen (6 miles south of North Sunderland), after that 33 years at Monk's House; has been 40 years here. Has been a fisherman all his life, and has been in the habit of fishing for crabs and lobsters. When he was lad there were only four or five boats out of Newton, three or four out of Beadnell.

Trunke.

for them. Never sold crabs for more than 1s. a score—they would fetch a good deal more now. Lobsters were the main thing when he began. There were more lobesess when he began than when he left off fishing. When he was a lad has got from 52 to 75 lobsters in a night. Used in those days to fish with trunks (gron rings, 21 inches in diameter). There were 2 men and 24 trunks in a boot. No trunks are used now. Nothing but creeks are used. Can't tell how many creeks a boat carries. Many more than 24. Three times that number. The lobeter season used to commence on the 1st December, and lasted till the end of May. After then the fishermen knocked off, and went on to

Close time.

line fishing and herring fishing. Can't say when they begin now. When he was a lad his lobaters all went to London. Welled smacks came for them. Lobsters were then 9d. a piece-this was a lobster 4t inches in the barrel; under that they counted two for one. The biggest lobeter he ever saw was 74 lbs, the smallest was about 2 oz. in weight. WILLIAM ROBSON (examined by Mr. Buckland). Has been fishing for crubs and

CRAES. lobsters off North Sunderland for 45 years; 3 miles north, 1 mile south, 5 miles out to sea is the extent of the ground. There are 15 boats fishing the ground. Each boot, on an average, sets 70 creels. Rings have gone entirely out of fashion. The crabs have fallen off greatly, and especially the last year. The Decrease. falling off began 10 years ago, it is both in size and number. The merchants won't take very small crabs. They won't take them helow 4 inches. S inches he would call a large crab. Thinks the decrease in the crabs is due to the excessive fibling. The fishermen begin fishing in January, and fish till June.

Soft.

The grabs are full of spawn, outside the shell, in June. The light grabs come in about this time of year (November). Sometimes they are hove away; but in shout this time of year (Kovember). Sometimes they are nove away; our concentence they are so not that they float, and cannot get to the holton. Interested to de for a concentration of the contract of the contract of the three three contracts of the contract of the c

Railways.

should be taken under 3 inches across the back. The soft crabs should also be Gouse. returned to the water. Lobsters are not so large as they used to be, and there are not so many as there used to be. In May and June he catches five berried LOBSTERS.

Berried.

hens for one cock lobster. Gets no more money for a berried hen than another lobster of the same size. Thinks the falling off of lobsters is due to taking the berried hans. A few lobsters are in spawn all the year round; but it is very rare to get a berried hen in December. Has thrown away many berried hens himself. Many fishermen, however, would not agree to a law to throw back berried hens. Has seen lobsters as small as 2 inohes in the harrel; these are inshore in June. Thinks that very small lobsters should not be taken, and that the merchants should not take them. The merchants only now take lobsters under 4½ inches as two to one. Has known lobsters killed by storms in very heavy seas, but not many.

JAMES ARCHIBALD (cramined by Mr. Walpede). A fisherman at Craster. Has been 41 years croh-catching. Craster is about 8 or 9 miles south of North Sunderland. The crab ground extends off Craster 4 miles south, 3 north, and 4 to 5 seawards. There are not shore 15 boats from Craster, hat they have had 18 or 19. They have bead many losses of life at zen, which have diminished the number of hoats. When he was a lad there were about a dozen Bortz, cummanced the summer of loads. When he was a list there were neout a dozen drove, heat out of Caster. When he was a lad began read and loadser feithing before Combined and ended at Homes, which are a lide began read he loadser of the loadser of the close of May. The Craster news still keep to this Comment, we can all readural the believes that the creats have been shot already, i.e. November. Thinks this is an injury to the felievy. Thinks the loadser smigrate from one ground to the other, and that the usuan-Mayorities. Innies the sources migrate true one ground to the other places. There is not one crab or lobster new for 20 when he was a lad. When he was a lad could, with his present tackle, have got 50 score evabs in a night. The most they over got Decrease.

last year was 22 score in one day. Never caught 30 tobsters in a day in his life. 12 would have been the average eath 40 years ago. There is many a day now when the beats won't average three lobsters. Does not think the average for the season would be more than three.

The crais were the first to fall off. This failure began about 25 years ago. The lobsters began to fall off about the same time. Thinks the decrease was Decrease. due to excessive fishing. There was a great increase of fishermen shout that time. The redways had been made a few years before. Thinks that there are not merely more fishermen to divide the take among, but that the crais have decreased in number. Thinks the proper remedy is a close season for crulss and lobsters. The close season should commence on the last June and end on Close time. the 30th November. This is the universal opinion at Craster. The coast-

guard could enforce the law.

Thinks also that the little crabs and lobsters should be put back. A 4-inch Gauge. gauge might do. A 4-inch gauge in the harrel might also do for lobsters. GEORGE DAWSON (exessised by Mr. Backland). A fisherman of Craster for 40 years. Has heard Mr. Archibald's evidence. Agrees with him that ceabs and lobsters are falling off. When first he went fishing they had nothing but Degrees. iron rings; they now use creels. Agrees with a close season communiting on 1st June and ending 30th November. Thinks the Scotch crabs are larger than the Northumberland crabs. Thinks that all crabs under 4 inches should be returned to the sea. Will agree to a 4-inch barrel gauge for lobsters if all Gauge be returned to the sea. Will agree to a 4-inch barrie gauge for gooders if all despectable the rest will do a. Chesia see agish that for holders, but not for earliss. He disorder near, broken up each as that for the chesia that the chesia see tha in the height of summer. Cannot say how far crabs will travel. They cravit most in thick water. The crab pots are baited with fish. The crabs are sent mway alive. The lobsters have their claws tied, not plugged. Has store places Store god's, for keeping lobsters. They are called "hullies," i.e., boxes with holes. The bottom of the sea is rocky, very little sand. In January they begin to fish in 22 to 23 fathoms water, and draw closer in shore from lobsters as the year Migratius.

WILLIAM MASON (exemined by Mr. Walpole). Has lived in North Sunderland for 13 years. Was bred and horn at Craster. Has been a fisherman for seven years for erabs and lobsters. Fished off Cruster. Thinks the crabs are increasing in number. Believes that there is a bigger tomage of crabs sout Increasing and at Christon Bank so informed him. Thinks, also, lobsters are increasing.

Encuiro Thinks that the cod are an enemy to the crabs. Does not think that any legislation is mecasary, except that he is in favour of a close season. The fishing sesson should begin on the 1st February and Close time-end the last of May for bolsters, and last of June for crabs. The question of size should be left to merchants and fishenuen of the crabs, but all lob-sters under 4 inches in the barrel should be hove away. A 5-inch crab is a large crab, Gasyo.

LOBSTERS.

CRADA.

CRAES. Decressed size. LORSPERS. Gloss time.

venrs. Fishes about 3 miles north and 3 miles south of Beadnell, and about 4 miles seawards. The bottom is rocky. The crabs have not decreased in number, hat they have decreased in size in-shore. The price of crabs has risen. The

very small crabs (say 3 inches) are hove away. Has had crabs as large as 5 lbs. weight. Is in favour of returning small and soft crabs and of baving no close season. Is in favour of a close season for lobsters after May. They should return the lobster fishing after September. The object of the close season is resume the louser rishing after representer. The object of the close sension is to save the breeding fish. There was a time when berried hens, however small, counted as full lobsters. During the last few years small berried hens have counted two for one. Never collects the bervies and sells them separately.

Berrien CRABS. Secretion. Soft.

but hears they are so sold. Thinks that the berried hen crabs should be spared. They are thicker in May and June than at any other time, but crabs are taken with herries all the year round. The crabs are thicker this year off Craster then they have been for nine years back. This is in deep water. Inshore the crabs are certainly decreasing. In November on some days one half, some days more, some days hardly any, of the crabs would be soft. The set crabs are taken in 20 fathour water. They are unmarketable and unfit for fool, and eacht to be returned. Some of the soft crabs are sold, however. There are about 30 fishermen at Bendnell. There are three men to each boat, 36 creeks to the three men. The creeks are examined every day if the weather permits. Sometimes, however, they cannot get out for the weather for a week. Lobsters can get out of a creel, and he believes they go out claw foremost. There are no cray-fish about here.

ISAAC DICKSON (experience by Mr. Walpole). Lives at Beadnell. A fisher-man for 28 years. Has been fishing occasionally for crabs and lobsters. When he first went out used to fish for crabs and lobsters all the year through except Season for. for three months during the herring season. During the last three years has

been catching crabs from October till the end of June. Before these three years, need to begin in February. They commenced the October fishing because they found the crabs and lobsters paid better than the white fishing. They are mostly crabs in October, only a few lobsters. Gets a great many soft crabs. Thinks this a very greet waste. It would be a good thing to stop the waste. Would, as a Beachell man, be in favour of a close session for crabs from the lat July to the 30th November. Believes that the Beachell men are doing harm to the fishery of the autumn fishing. The lobeter close season abould begin let June, and go on to the 30th November. Crabs and lobsters are oxught in the same creeks. The fishezmen fishing for crabs in June would have to put back any lobsters they caught. A good many of the Beadnell men would agree to this close stason. Thinks the Cosstguard might enforce

Class time. LOBSTERS.

Soft.

the close season. Is in favour of returning all small crabs to the sea. Thinks that all under inches should be returned. Is in favour of returning all lobsters under 4 inches in the barrel. Crabs and lobsters are not increasing. More may be caught, but there is

Genge. ORABS

more machinery for catching them. CHARLES DAWSON (exemined by Mr. Buckland). Lives at North Sunderland. Has been fishing for crabe and lobsters for 40 years. Thinks that there are not much fewer caught, but there are more boats and men catching them. Forty years ago there were about six hoats here; now there are 16 to 20. The aggregate take of the boats is as large as ever, but each boat gets fewer. Is in favour of a close season commencing on the list July, and ending on the 31st January. The crabe are not in season in these months. There are about 50 erab flabermen. The population of North Sunderland is 900 to

Close time. Isse fire.

1,000. Most of the fishermen are in favour of the close season be bae recommended. Is in favour of returning small crabs to the water. Is in favour of a close sesson for lobsters commencing on the lat June, and enting on the 30th November. The gange for lobsters is 4½ inches in the burrel. It would not do to return all lobsters below this size. But small lobsters ought not to

nct do to return all lobsters below this size. But small loopster origin not to be taken. Cannot say exactly what the gauge abouth do. John Strephens (exemined by Mr. Waloole). Lives at Beachell. Has been shitermen for about 20 years. Heard part of Mr. Dickson's evidence. Is in favour of a close season. Lobster fishing used, when he was a boy, to begin on let December and close at the end of May. Crab fishing went on till the

herring season began, i.e., till the end of June or middle of July. Started this year early in October; thinks this a bad plan. In every day when he began there were 10 to 50 orabs in every set, and in some nets all the crahs were had; the great majority were solt. Only got one harrel of crahs out of So/A. CRAES.

the whole take. This ought not to be allowed. Has always flung small crabs away, and is in favour of returning all under Gasse. The small lobsters escape through the mesh of the creel. Would

toss away all under 4 inches in the barrel. John Dawson (examined by Mr. Buckleud), Of North Sunderland. Has been fishing 24 years. Has heard previous evidence. There are just as many crabs caught now as ever, but there are more fishermen and more gear to take Agrees that small crais should be returned to the water, and also mall lobeters. Agrees that there should be a close time. Fishing should Close time. Spring should Close time. Thinks the fishermen

N.B.—Before the close of the inquiry some small crabs (the largest 44 inches) were produced. The fishermen were unanimous in thinking the largest of these too small to be taken, and were in favour of a 45-inch gauge. Garren.

would oney such a close season.

School Buildings, Cullercoats, Wednesday, 15th November 1876. PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

ROBERT CARR (enguined by Mr. Walpole). Lives at Cullerconts. A fisherman and fishdealer. Fourteen years in business, and about 32 years fishing for earlies and lobsters. The crab and lobster ground extends three miles north, one mile south, and two miles out to see. There are about 30 boats at Cullercoats fishing for crass and lobsters. Commences fishing for shell fish about the 1st April; Sensor, for crahs and tobsters. Commences fathing for shell that about the lat Aparl 5 some consistence till the beginning of July, when the herring season commences. Lotter fishing its resumed in October, that s for about a month, and it not Lotter fathing its resumed. Aparl. The fathing is sentirely with creds, squin resumed till the following Aparl. The fathing is sentirely with creds, which are here called poin. Too have been in use ever since he can recollect. Park. The shell fish go to London, Manchester, Birmingham, Newmarte, and

Shields. Crals have fallen off since he has been engaged in the fishery. During the last 14 years the crals have fallen off one half. The decrease is in number; Decrease.

last 14 years the crans have maken on one man. As uncrease is the maken of the commented the decrease is there is not much difference in their size. Cannot say what the decrease is attributable to. It did not commence before 14 years ago. Cannot account Price. for it. Crabs 14 years ago were 2s. 6d. a score; they are now 4s. LOBSTERS.

for it. Crubs 14 years ago were 2x 6d, a secor, they are now 4x.

There are not a great many beliefs taken on this count. Thinks they are Lorest.

There are not a great many beliefs taken on this count. Thinks they are Lorest of the country landed per least as there were. Cannot decreasing too. There are not so many landed per least as there were. Cannot account for this, except that there more beads thising for them. Twenty-largest engine the country of the country 28 years ago, and carry now, three men and a loy each. They carry now 36 creels each, and used to carry about 24 creels 28 years ago. There are twice as many boats as there were 28 years ago, and each hast carries one twice as many boats as there were 28 years ago, and tack hast carries one twice the intercase in the boats has been taking place gradually. Thinks that this increase in the number of fishermen may have some con-Tomic test this increase in the number of finite-rear may have some contraction with the dense in the snapely of the. Thinks the mean test in the number of the contraction of the test in the loan error-bidned by this great probability of the snapel thing to require the return of all finite contracts are snapely of the snapely of the snapely of the state of the snapely of the state of the snapely of the put over alive. In October only the old men lish. Does not think the October fishing is an injury.

CRADE

(By Mr. Buckland.) Crabs with spawn are nover brought ashere. They no mostly caught with spawn in June. A 5-inch crab will carry spaws. Ever CRABS since he can remember, all spawning crabs have been returned to the sea. önsgesése. The male crabs are found in the roughest rocks. The bottom of the sa of Collegeouts is sand and rock alternately, and there is plenty of long taugle

weed. The fishermen would not object to a law compelling them to return weed. The macronauth would not object to a constitute the united retent period crobs. By a coft crob means a crab that has east its hard shell, and has got a very tender shell. These are mostly caught in October, but they are never sold. Has never third to ext a soft crab, there is nothing in them. Catches some big and some little crabs. Berried lobsters are mostly caught in Derried 8.0. LOBSTERS. June. Has had many less than 41 inches in the barrel. Finds herried hens all the year round. Gets no more money for them than for other lobeters. Cannot my Snowsing. whether it would be advisable to put back berried hous to the ses, but would Chan tiens

recommend a close season for lobsters in July, August, and September. Never saw a lobeter shed its chell; but one did change its shell on his own premise. The crab pots in April are put into 16-fashom water, and gradually are brough; in nearer the shore, till in June they are close to the rock side.

J. Cameron Reid, M.D. (examined by Mr. Bachland). In practice at Newbiggin. Went there 24 years ago; there were then only two or three boss geing out for each and lobstere. Frequently saw small lobstere taken from pots,

and pointed out to the men the unwisdom of this course. The men replied man possess out to and men one unwisuous or ones course. In o men replied that others did it, and that it would be a better thing if there was a law to stop it. Thought that the men who bought these small fish were worse than those who took them, as encouraging this wasteful practice. With regard to crabs, the small crabs are in better condition than the large erabs, and are often Value os food.

beavier than the larger ones. The population of Newbiggin in 1871 was 1,185, and there are from 100 to 200 fishermen. The crab and lobeter fishermen are usually old men. There are from 8 to 11 boats there. As a medical man be considers that crabs and lobsters are nutritious, and ought therefore to be increased; they contain a great deal of phosphorus, and are good for the basis.

The Newhiggin people would be glad of a law. In his opinion July, August, and September ought to be closed both for crabs and lobsters. Every end above 4 inches chould be marketable, and 4 inches in the barrel should be the gange for lobsters

Garge. ROBERT DENT (aromined by Mr. Walpole). A fisherman of Newbaggin, Has heen a fishermon 48 years. Forty-eight years ago there were only three or for bosts at Newbiggin fishing for crabs and lobsters; there are eight now. The boats have more than double the amount of tackle they used to. Thinks that the crabs and lobsters are diminishing. They began to diminish 12 or 14 years ago. Forly-eight years ago a hoat might have taken 10 or 12 lobsters a day. They can get as many now, but they must use double the amount of tackle to do so. Thinks the decrease is one to over-fishing. At Newhispin the crais and

lobsters are flahed all the year round. Does not think this is a good plan. This has gone on for six or eight years. The session used to commence in September and end in May. Is in favour of a close season for crabe and lobsters. It should be in June, July, and August. This should apply both to crabe and lobsters. Thinks there is no harm in the naturum fishing. The soft crabs we returned to the sea uniquired. Is also in favour of a gauge, 4 inches for crabs, and a 4-inch barrel-gauge for lobsters. Below this they go four for one,

and are not worth taking. COLIN DOWNIE (excusiosed by Mr. Buckland), A fish-dealer at Newbiggin. COLUMN Has been in business 16 years. Buys crabs and lobsters from the fishermen. There are about four desiers at Newbiggin. There are eight boots at this time, and 12 in the currence season. The crabs have fallen off a little in his time; not a great deal. The falling off has been in number; there has not been

much difference in size. The 4-inch crahs at Newbiggin go two for one. The merchants sometimes complain, especially in Manchester, that the size of only is small. In Manchester, as a rule, crabs fotch 16s, to 18s, a burrel, which contains three score. The little cruhs come chiefly in May. Some of the small 4-inch crabs are very heavy crabs, and are good food. Thinks a 4-inch grags for crabs would do. Knowe what a soft crab, or, as it is here called, a caster, is, but his men do not take them. They do not bring them ashore. They get fewer lobsters than they did, but believes that as many lobsters are caught as ever. Owing, however, to the increased number of hoats, each best does

LOBSTERS.

Close time.

Seft. Goues not get so many. The price of lobsters varies. A small 4-incb lobster will sometimes bring 6d., sometimes 1s. 6d.; the average price will be about 10d.

Thinks that all lobsters below 4 inches in the harrel should be put back. Gauge.

There is a greater demand for herrich bens than for anything else. The berries

are made into source. Is in favour of a close season in June, July, August, Glose time. and September. Thinks that this is the principal breeding zeason. In September many of the lobsters are soft in the shell and hody. These probably Sage. have lately shed their shells and are recovering. Lobsters have been thrown away 50 at a time in September, because they were so soft both in shell and hody.

JOSEPH BRUNTON (examined by Mr. Walpole). Lives at Cullercoats. Was fishing for six years before he went to sea. This was from 54 to 48 years ago. Recommenced fishing in 1839, and has done so ever since. Fifty-four years ago pots were not used. Nothing was used at that time but trunk nets (iron Trankr. rings, 21 inches in diameter, with a net attached to them); these could only be fished in very shallow water. Used to carry 16 to 18 trunk nets per hoat, and in a day would sometimes catch six or seven score crahs (30 to a score), and perhaps a score of lobsters (20 full-sized lobsters to the score). In those days permaps a score of inducers (not run-timed inducers to the store). In those days never shall be flowed May, and were on the July. Rozerice of as at that time, and went to the herring fabring. All July. Rozerice of as at that time, and went to the herring fabring. All properties of the store of the st goes on till July; is resumed sometimes in September, but there is very little autumn fishing. There is less fishing than there was then, but there are a great many more hoots. When first he went fishing there were Bests. only 15 heats for all kinds of fishing out of Cullercoats; there are now 42. Crats and lobsters are a great deal scarcer now then when he was a lad. Decrease. Thinks that too many are caught. Agrees with previous witnesses. Is in avour of a close season, commencing on 1st July and ending 30th September. Class time. Is in favour of a 4-inch gauge for crabs, and a 4-inch barrel-gauge for lobsters. Gauge.

Thinks that the coast-goard might enforce the close season.

(By Mr. Buckland.) The crab pots are haited with small fish,—codlings, whiting, &c. Edible crabs are never used as bait for the lines, they are too valuable. A lobster prefers a stale bait, or even salted fish; a crab a fresh bait. Batt. The pots are not shifted much, they are placed in about the same places always. One fleet of pots would be 90 to 100 feet from another. There are 500 to 1,000 pots altogether in 12 square miles of ground. Crabs and lobsters will get out of the pots. After storms or after daylight the pots are syngally empty. Most of them are caught in the first of the morning before the daylight comes. The guns at Tynemouth do not affect the lobsters.

the engagest comes. The genus at Typermounts on not affect the loosters. WILLIAM ANSAFRONC (exceeded by Mr. Dackkers). A fisherman of Hawkley. Hes heen fishing 50 years. Fishers off Hawkley and five miles north and south, and two miles out to sea. The bottom is very rocky. There are many places where there is only 7 fashom water on one said, and 15 fathom on the other said or the book. There is a great deal of weed there. In 6 or 7 the other side of the bost. There is a great deal of weed there. In 6 or 7 fathom water there are weeds, but not in deeper water. The lobsters are among the weeds in some places, but not always. Thinks the lobsters feed on small Food of fish, &c. among the weeds, and not on the weeds. There are 9 or 10 boats fishing for craks and lobsters at Hawkley. In the winter each bost carries 30 ercels, in the summer they use 60 cade. Will sometimes get 30 or 40 lobsters in a day per boat. There are as many crais and lobsters as there were 15 No decrease. years ago. Does not think that they are diminishing in number on his ground. There is a great deal of ground; sometimes is able to shift the pots five or rix miles north and south. A full-size lobster is 4½ inches in the barrel, below
4 inches in the barrel four lobsters go for one. Thinks it is impossible to overfish the place in the present way. Out of nine boats on the ground, only two are fishing in the winter, the others are on the herring fishing. Is, however, in Class time. favour of a close season, and has consulted the dishermen on the point. The Hawxley fishermen would like a close season for crabs from 1st July to 31st January. The lobster close season should also commence on 1st July and end on 30th September. That is the time when lobsters are at their worst. Thinks

such a close season will improve the winter fishing. Fishes crabs and

LORSTERS.

CRABS.

LORSTEES.

back. Does not think that there is a breed of small crabs that does not grow. There are not many crabs bigger than 8 or 9 inches. Catches many soft crabs with very thin shells about this season of the year (November). Puts them back into the sea. In February gets no soft crabs. The soft embe (he believes) bury themselves in sand in the winter. They go into very deep

water in the winter, especially in the cold weather. The crab and lobeter season depends very much on the weather. Crabs and lobsters will not crawl in hard frosty weather. His shell fish all go to Mr. Brown, of Newcastle. The price has increased.

WILLIAM LIBLE (exemined by Mr. Walpole). A fisherman at Callercosts.

that the crahs are falling off in size and numbers. There has been no particular decrease in lebsters. Thinks that the boppers carrying out the

results of the dredging boats on the Tyne bring out a great deal of stuff which fills up the holes in which the crabs live. The hoppers are bound to go three miles cut—to 18-fathom water. The enabs are caught from the shore to 18-fathom water. Thinks that the clay, &o. from the hoppers both

decrease had resulted from over-fishing, the fish ought therefore to have increased, and notwithstanding they have continued to decline. The salmon fishing does not interfere with the autumn fishing; but there is very little autumn fishing, and that only for lobsters. The portion of ground which has been sited up was both crub and lobster ground. The deep-sa travelers travel up large numbers of crube. Many of them in September and

October are eastern, i.e. soft crabs. These are killed in large quantities, and many are also brought ashore. These trawlers are about aix miles out. They go over a great extent of ground. Thinks it possible that they may be doing some mischief. In the autumn, while fishing for lobsters, the fishermen get any amount of soft crubs. They are tossed overbeard,—in his opinion they live. Is not in favour of a statutory close season. Is in favour of returning to the sea all lobsters below 4 inobes in the barrel, and all crabs

(By Mr. Buckland.) It is uncless to set the pots hefore April; if they did,

would catch nothing but whelks. The crabs are in the best condition for

market in May. After June they go off in condition, they cast their shells in about August, and in October they draw off into deeper water. This is the time at which the trawlers catch them. It is the custom to put back all

berried crabs. The fishing, however, has not increased through the berried

in October and goes on till June. The pots are constantly down except in stormy weather. Thinks the lobsters are just as thick as they were the first

CRABS.

Micratica.

LOESTERS. No decresse. Pollutions.

settles when it is deposited and is also washed on to the ground. North and south of the bar used to be the rockiest part. When the haddock lines were shot, many were lest because of the rough rocks. Now none are lost, and this shows that the bottom is all smooth. This rocky place was seaward of the piers, and the current there is as strong as ever. In his judgment the holes in which the crabs live have been filled up, and consequently fewer crabs are bred. Lobsters, as a fact, live in holes quite as much as crabs, but the lobsters have not decreased. Many of these hoppers come from the alkali works, and he thinks it possible they may also poison the small fish on which the crabe and lobsters feed. Does not believe that the ground can be overfished. Believes that it is useless to begin fishing before April, and that after April you can only fish three months, and that it is then impossible to clear the ground. Moreover the hang nets for salmon have interfered with the Salmon fishing. tackle of the crabber, and so has limited the fishing. In consequence the fishing for crabs and lobsters has decreased during the last few years. If the

Totaline.

Gauge, CRABS. Gauge. Casting skell. Devried.

hen orabe having been put back. Does not think that putting back the little crabe would increase the size of the crahe. Thinks that the crabs procreate when the females cast their shells. The male crab is always then guarding the female. Has himself seen this. All this, especially cod, sat crabs. Receding Enemies. GRORGE SIMPSON (excurined by Mr. Buckland). Lives at Hawkley. Has fished for 36 years. Has beard Mr. Armstrong's evidence, and agrees with it. Uses 30 pots per boat at this time, and 60 in the summer. Begins fishing for lobsters

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below 4 inches across the back.

day he went to sea. A 4 lb. lobster is a good lobster. This would be about LOBSTERS. may be went to some. At 1 to move the agreement 1 lb. in weight and about 42 No decrease, inches in the barrel. Lobaters below 4 inches in the barrel go four for one, and are very small then. Would be in favour of a law compelling the return and are very equal them. Would be in seven of a law compensing the Court of all these. The Hawkley fishermen generally are in favour of this. Crabs Gauge. and lobsters both resort to rocky ground, the harder the rock the better for lobsters, and the best crabs also resort to hard rocks. Attributes the non-decrease of the Hawxley fishery to returning the small fish and keeping a close season. It has been the custom at Hawkley, all his time, to return all crabs under 4 inches, and, till the last five or eix years, all lobeters under 4 inches. They stop fishing at Hawkey at the end of June, and resume at the beginning of October. They begin fishing at the end of October and go Gless time. on till June. There are many more boats fishing the Cullercoats than the

Hawxley ground.

THOMAS OLIVER (examined by Mr. Walpole). Lives at Hawkley. Has LHOMAS ULIVER (GEORGES on All. PROSPEC). LAVE IS LIGHTLY, THAN been fishing for 26 years. Heard Mr. Armstrong's and Mr. Brunton of widence; agrees with it. Is in favour of a close season for crabs and lobstere, Gase time. from the 1st June to the 30th September. Is in favour of returning small Gaupt.

Combined to the 30th September. Is in favour of returning small Gaupt.

LOBESTERS. lobsters, and 4 inches across the back for crabs. Has been in the habit of re- Gauge. turning all fish under these sizes at Hawxley, and there is no decrease at Hawxley. Was three years at Cullercoats before he went to Hawxley. Did not HINGSEY. VISI times pears at Chilercoats before he went to Hawaley. Did not return the small fish at Chilercoats; could get a market for them there. The Chilercoats ground as much harder fished than the Hawaley ground. The ground at Chilercoats is smaller, and there are many more fishermen upon it. Thouas Eduard (cannined by Mr. Bucklond). Of Collercoats. Has been

fishing for 22 years. There were more crabs and lobstere 22 years ago than Decrease there are now. Agrees with Mr. Lisle that the ground has been much affected by the refuse tipped out from the hoppers, which has made rocky ground semooth ground. The area of the emb and lobster ground has been diminished by the operations of the hoppers. The hoppers, when first they started (about ny me operations or the hoppers. The noppers, when mere they started (about 1866), deported the staff close in abour. The Commissioners have since found it accessors to compel them to go further out. They have been at work about 20 years. The arctires of the ground has been altered. The hoppers have had the effect of extending the amount ground, where it used to be rocky, for had the effect of extending the amount ground, where it used to be rocky, for four miles out to sea from Cullercoats to the southward. Is in favour of a Close time. close season in July, August, and September, when the fish are coft and in spawn. Is also in favour of a 4-inch gauge for crabs, and a 4-inch harrel Gauge.
gauge for lobsters. Thinks that the close season will be sufficient without a CF law enforcing the return of berried hens. A berried hen always counts as a Genrefull fish, whatever size she may be. It was predicted when creeks were intro-lated, 34 years ago, that they would not leave a crab or lobster. They had, however, no offect for some years; but during the last eight years there has not been one sixth part of the crubs caught that used to be taken. Yet the Berrosse.

last year there are fewer crabs than ever.

Increased fishing 34 years ago did not lead to any decrease of fish. Decreased fishing during the last eight years has not led to any increase of fish naming uniting are see eight years into not to a to my increase of man.

Anonew Tatlor (examined by Mr. Walpod). Of Collercoats. Has been taking 40 years. Agrees that crabs and lobsters have both decreased in numbers. Cannot say what the decrease is due to. A close time might be

tried, and is in favour of trying it. Is also in favour of putting back all small fish, as recommended by previous witnesses. Thinks the hoppers may have a tendency to destroy the ground. The rule that the stuff is not to be tipped resources to destroy the ground. The rule time fire stair is not to be tipped in less than 18-fathom water is strictly carried out. The refuse from the Pollutions. alkali hoppers, known as Blue Billy, kills the coding: has known it do so. Has known the water out at see made offensive by the alkali refuse.

GRORGE HARNOVPLE (engineed by Mr. Buckland). Inspector of Police, Tyne Salmon Conservancy. Is well acquainted with the mouth of the Tyne. Has been over it for the last seven years, many times from Newbiggin to Souter Point, and three miles out. Has heard previous evidence about hoppers. They work night and day all the year round, except in extremely strong weather. They go out when nothing hat the best pilot boats will go. Has seen 14 hoppers in view at the same time. The hoppers bring down a large quantity of dirt of all kinds from the bed of the river, and ship ballast; a great quantity

CRABS.

Justices' Room, Whitby, Friday, 17th November 1876. PRESENT . FRANK BUCKLAND and SPENCER WALPOLE, Esquires. THOMAS SMALUS (exemined by Mr. Buckland), Has been a fish merchant at Whithy for over 20 years. Deals in crabs and lobsters and all other fish. Crabs have andoubtedly decreased both in size and number. It is an unusual

thing to measure crabs in this neighbourhood. Above a certain size, however, ranks are considered "tale" crabs; below that size they would go two for one.

A 5-inch crab would be a good "tale" crab. A 4-inch crab would go two for one. Very small crabs, however, are also brought into the barbour. Many of these are less than 3 inches. These very small crabs are sold among children for about a halfpenny or penny a piece. A 5-inch crab would be worth 6d. The small halfpenny crabs, he has no doubt, would grow into 5-inch crabs in time, but doesn't know how long this would take. As a dealer, would have nothing under 5-inch cashs, but this would be bard on the fishermen. The chief market is in London, but the crabs also go to Stockton, Darlington, Manchester, Liverpool, Locds, &c., and are hawked about. Even the fishermen urefer the larger crabs. Crabs, however, are not usually sold now by count. but by kits. A kit is a wooden package, holding a score of good crake. The women put the big crabs on the top of the kits. Small crabs and she crabs go two for one. Soft ombo, so far as he knows, are never inrought asslore.

There are more fishermen for crabs than there used to be, and the extra number of fishermen keeps up the aggregate take, though individual fishermen do not get so many. The fishermen here only fish for crabs in the spring of the year. At this time (November) they fish for a few lobsters, but not for crabs. In his opinion, thinks that there is no necessity for a close season, there being a

The lobsters have certainly fallen off, but the falling off is in size and not in

Pollertions. CRARS

must therefore have been deposited in the sea outside the Tyne. Has no doubt that this deposit has filled up all the recky ground at the mouth of the river, and made it smooth. The deposit is heavy, and is not carried far by the tide. Agrees with Mr. Liste and Mr. Bolam that this deposit must spoil the habitat both for lobsters and crabs.

Reverend R. F. Wheelen, Vicar of Cullercoats. Has been at Cullercoats 15 years. Has taken a great interest in everything connected with the fisheries. First the white fishery, second the salmon fishery, third the can and lobater fishery, see the chief industries at Culleccosts. Formerly the berring fishery was also important, but the herrings have cossed during the last four years. When he came to Cullercoats there were a great many more crabs taken than

Decresse. are now. The decrease has been both in size and number. Is doubtful as to cause of decrease, but is in favour of restrictions on taking immature fish, and of a legal close season. Attaches importance to the refuse from the hoppers, and especially to the polluted refuse.

learnesse.

Mede of

LOBSTERS. Decreased stee. Mode of counting. Revenied.

number. A sizeable lobster is 44 inches in the barrel. All below that size go two for one. The flahermen call the very small ones Nintycocks, or Nancies. and they go two for one. These Nintycocks would measure below three inches in the barrel. The very small lobsters are of very little use. Would rather not have them. Gets berried hens. There is a premium, he is sorry to say,

for these, as they are much sought after, the berries being used for sauce for turbot. It would handleso the fishing to a very great extent to put back the berried hens. The berried liens are being taken all through the spring. Very few are taken in the back part of the ausson. It would be a good thing to

natural close season.

return all lobsters under 4 inches in the barrel. A full-size lobster used to be Games inted image digitised by the University of Southampton Library Digitisation Unit

6d., 7d., or 8d. each. They now fetch shout 9d. each. The small lobsters do LOBSTERS, not make more than 3d. or 4d. each. Has had soft lobsters. It is very rare to Price. get any "light" lobsters. A few lobsters are caught at Christmas time, but get any ingut souscess at that time. Has seen some very large lobsters there is very little fishing it that time. Has seen some very large lobster here, some weighing 3lbs. A 3-lb, lobster is a very large lobster here.

nees, some waighing time. A 3-to, locater is a very large lobster here. The method of estelling cribs and lobsters is different from what it used to be. They need to be ensight in trunks (rings with nets), they are now caught in Page 100 to cereils. The poist were introduced about 20 years ago. The trunks pois or creak. The poist ware introduced about 20 years ago. The trunks required the constant presence of a faitherman, and could only be fished at

night. The pots can be fished without the attendance of man.

sight. The pole can be finited without the attendance of man.

Condex, 30 years age, were 22.66, in experiment of prints of the policy of the

nsuing towards too end or anarca, and generally cross among about the out.

July. Docen't resume fishing till the following March. This is the usual senses.

practice of all the boats. Two old men only go out in October for a week or

two to catch lobsters. There are about 20 boats at Whitby fishing for canbe and lobsters. They go shout 4 miles north, 3t miles south, and a mile out to see. The ground is all rocky. A mile out there is 12 to 13 fathoms water. Stops fishing in July because after that the crabs are soft. Doesn't fish before CRARS. March because the weather is too uncertain. The crabs are not so numerous as they were 11 years ago. The fishermen get less than they used to do. Used, 11 years ago, to get regularly four or five score taleable crabs a day. Now it is a is years ago, so go requestly our or aver some streams or now. Now miss very good day's work to gob four or five some. The average take is shout three some. There are, however, more boats now than there were then. There were Boats. 14 or 15 boats 11 years ago. Thinks that there are fewer crabs in the sea than there were. Thinks the decrease is due to the Sourborough men, who come there were. Immes the occasions is the way amali crabs. The Scarborough men fish and fish the ground and take so many small crabs. The Scarborough men fish the same senson as the Whitby men. The Whitby men would have taken no small crabs if the Scarborough men had not started it. Is in favour of stopping sman cross it are commorouga and use no morred to a rate avoid of solphing the taking of all small crules. By a small crab means a crab measuring 3 the mixing or all small colors. By a small erati means a crap measuring a inches across the back. A 3b-inch crab should be taken. If these couldn't be a-section of a-sections across the back. taken it would be very little use for the fishermen to go out crabbing. A

31-inch crab could not grow into a 4-inch crab in one year. Is in favour of a gauge compelling the return of all crabs under 3h inches. gauge compeliing the return of an trust under of mastes.

Tainks lobsters are also decreasing. There are not so many caught as used

LOBSTERS.

Decrease. Thinks that no lobster under 31 inches in the barrel should be taken. A Gasgot

lobster shove this is a good half-sized lobster. It is not necessary to have a

close season as there is one naturally.

(By Mr. Backland.) The 6th July is the customary date for stopping. (16) 3Hr. Berestenn, J. Time can any is nne customary dance for scopping.

Assets First. I convincise by Mr. Berestend, Lives at Statthers, the largest fashing town in the North of England. The population of Ninthers is about 2,000, and there our more train 110 fisherment there. Fishes for herring, only ling, halling, to, and shell fash. There is no traviling there, which is the state of the CRABS. with craits and lobators. It wouldn't be possible to load the boat with them now. Would do well if they took a quarter of the number they took them. now. "out to wish six miles north, and three miles south of Staithes, and one mile out to sea. The bottom of the ground is hard rock. There are some places where there is sand, but they don't fish there as they get noft crabs and dog crabs which they don't want. His crabs are sold at Staithes and also at Grosmont, 11 miles off, where they go all over England, especially to London. Has caught ermbs 40 or 50 years ago, and sold them for 2s. a score. Gets now 5s, a score. There are 35 heats at Statthes (each with two men) fishing for Bests. crabs and lobsters. Most boots carry 60 creels or over 2,000 creels altogether. Has found 14 to 15 crabs in one creel. The creels are kept all night in one place; but are shifted from place to place during the day. There are creeks all over the ground. The crabs come in from the deep unter. They come

some years in March, some in April, but this depends on the weather. They Mayestim, carn't be time April and May. The cock and hen crabs come together. A few

CRABS. Barried. Gaues.

Bolling. Close time.

at Staithes. The fishermen would agree, however, to do so. Is in favour of returning all crabs under 31 inches to the sea. Many crabs are taken great deal resulting in that, as small as 23 inches. The small crobs are given to the children, who est them. The crabs are not bolled before they are sent to market. There is a natural close season, as the only fahing is from the middle of March to the 6th July. It doesn't pay to go crabhing in the winter. They get solitary crabs in winter on their lines and they are always hig. At Staithes they do not craus in waiter on enerr lines and user are savers ing. As Schalles they do not be enter for best. But they do use titem at Runswick as hat for cod which see again cut up as hait for the erab pots. Thinks the Runswick men would agree with the Statister men. Lohders have been falling off gradually for the last 50 years. Thinks that the decrease is due to over-flating. Fifty years ago Used for balt. they used to fish with trunks, iron rings, 21 inches in diameter. The trunks were fished in 10 fathoms water, and each host put down from 30 to 40 trunks. Thick water in day time and clear water at night was the heat time for fishing. The moon makes very little difference. Fifty years ago there were from 15 to 20 boats fishing with rings. Is in favour of returning all small lobsters to the ess. Would return all lobsters under 3½ inobes in the harrel. It would he hard to the fishermen to return all herzied hens, though their return would

> RIGHAM THOMPSON (exceeded by Mr. Walpole). Lives at Staithes. Has been a fishermen for nearly 20 years. Has beard Mr. Fell's crickence. Agrees that the crash have fallen off in numbers. When first he went crashing got from 13 to 15 score a night. It would be good now to get three or four score. Thinks decrease is due to over-fishing. When he began there were 15 or 16 boats, and there are now 35. Agrees also that lobsters has decreased in the same way. This decrease is also due to over-fishing. Thinks it ought to be illegal to take either small crash or small logsters. If this is not under law there will he none to take. No crab ought to he taken under 4 inches, and

> no lobster under 4 inches in the harrel. A full-sized lobster is 4½ inches, a

Jameson Colley (examined by Mr. Buckland). Lives at Whithy. Fisher

ordinary run of crabs are 4 or 5 inches across the back. The largest are 6 or 7 inches, this is an extra size. Is in favour of returning all the small crahs (under 31 inches) to the sea. A 31-inch crab is worth a penny. They

enerally return herried crahs to the sea. They may eatch four or five a week.

generally return herried crais to the sea. They have seen to the middle The fishing begins in February, March, and April, and goes on to the middle of July. This is the custom, and the fishermen consider that the crabs then east their shells and are soft. It is the practice here to heave back small crubs, and this should always be done. No close time is necessary here. There is practically a close season already. If he had his way, would heave all the

herried lohsters overhoard, so as to increase the stock. Knows that when he

is heaving over herried hens he is heaving over hundreds and thousands of

between Whithy and Robin Hood's Bay, about five miles distant. fishing 10 or 12 years. The crabe are falling off a good hit, especially during the last two or three years. They are falling off both in size and number. The

OBSTRUS

Gauce.

CRABS

Doorecte. žamas. Berried.

Close time.

LOBSTERS Barried.

CRABS. Gamps.

lobsters. But they are very tempting things, and, if such a law was made, the fish would be stripped of all berries. There are 40 or 50 crab and lobster fishermen at Whitby, and does not know how many would agree with him about this. Thinks no lobster under 3½ inches in the harrel should be taken.

JOHN ANDREWS (exemined by Mr. Welpole). Has heard Mr. Colley's
evidence. Crahs and lobsters have both fallen off. The small crahs and lobsters should be returned to the sen. Thinks a 44-inch crab ought to be

returned to the sea. A 41-inch crah should be kept. (At this stage some sample crabs arrived, and Mr. Smales on comparing their sizes desired to add to his evidence and to recommend that nothing under 45 inches should be taken.)

RICHARD THOMPSON, fisherman at Whithy. Has been fishing nearly 50 years. Thinks that no crahs under 4 inches across the back or lobsters under 4 inches in the harrel should be taken.

do good to the fishermen.

half-size lobster is 4 inches

The Inn, Robin Hood's Bay, Friday, 17th November 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

CRABS

LOBSTERS.

ISAAC STORM (expuised by Mr. Bucklend). Has been a crab and lobster BALK SYDEM (seminois by the Rudelson). Its been a crab and feeter of the different for enealy of your. Used formerly to use rings; it bitten off 26 years use, and now uses feeter poin. Crab are not a numerous them lobels of the Clark State of the Clark State of the State State of the Clark State of the State Stat across the back. Is in favour of returning the smaller crabs to the sea. Any- Goagething under 44 inches might be hove overboard. A 44-inch crab is a market-able crab. Has always been in the habit of returning these. A 4-inch lobster is an ordinary sized lobster: 4 inches and 45 inches are the two sizes for lobsters. Under 42 inches in the barrel lobsters count two for one. Under 4 inches they ought to be returned to the sea. Has always been in the habit of Geogra-returning berried crabs to the sea, but there are very few of them. Berried lobsters are found all the year round. It would not be possible to return ionsters are round all the year round. It would not be possible to return them. The fishermen get no more money for a bereid hen than for any other Berries. Johner. Has seen soft enabered, but always given up fishing before the soft enabe come in. The fishing commences in March, and ends at the end of July. No port are set before Tebruary. The lobsters are not no numerous as they Nervesse. were. The Scarborough people come on to the ground and take the small crabs; thinks if it were made illegal to sell small crabs, the Scarborough

men would estel the small crabs here, and beyer them overboard at Sear-borough instead of at Whirby. Unless this is prevented, any legislation borough instead of at Virilay. Onlines aim is provided, any registance will do no good to Robin Hood's Bay.

Isaac Syonn (excurred by Mr. Welpole). Lives at Robin Hood's Bay. Is ano Syonn (excurred by Mr. Welpole). Lives at Robin Hood's Bay. Is now \$3. Thirty-eight years ago only a few old men and young lads were flabing now \$3. Thirty-eight years ago only a few old men and young lads were flabing. for crabs; now there are 12 to 14 boats here. Thirty-eight years ago the Scar-

borough houts never came here. Seven or eight boats were here from Scar- Boats. borough last year, but he has known as many as 20 here. Thirty-eight years ago used with trunks to get 10 or 11 scors of saleable crahs a night. Wouldn't ago uses with trunks to get a vot 11 score to account a union to the babe now to get more than six or seven score a night. Now they fish night and day. With trunks they could only go into 10 fathorns water; now they fish in 20 fathorns water with pots. With the trunks used only to fish at night unless the water was thick in the day. Thinks the fishery is over-Decrease. night, unless the water was trace in sm any. Imma we not related. His the same story to tell of the lobaters. They are over-fished. Is in favour, as a remedy, of returning the small lobaters and the small crabs; i.e., all lobaters under 4 inches across George, i.e., all collections across the same of the collection of the collectio the back. The small crabs are sweeter than the large cabe. Thinks that if this were done, the fishery would be improved. The trawling smacks come in shout a mile from shore in the crab season and trawl up all the old breeders. asous a mate from above in the cont beaton and travit up at the out breeders. This last the clief of destroying the old breeding rebs. Last summer dependent of the control of the contro

MATTHEW COWPER (exquined by Mr. Buckland). Has fished for crabs in Robin Hood's Bay for 20 years. Puts down 40 pots. Fishes from the middle of April to the end of July. After that the crabs are mostly soft. Agrees Saft: that the order have fallen off, and thinks that this is in consequence of there Decreese, heing more mea catching them. But believes the trawlers to be the greatest injury they have to encounter. Has seen 16 trawlers in the summer, day after day trawling for soles, whiting, and other fish. These trawlers work in about Trawlers. 10 fathoms water. Thinks the trawlers destroy the food of the crals; and injure the nets for getting the crabs. The trawlers prevent the fishermen getting bait.

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Promitine.

stop in-shore trawling during the ceah season, i.e., from April to July. Agrees that all crabs under 4 inches, and all loasters under 4 inches in the barrel CRABS should be put back. The price of crahs is 3s. a score, and when he began was only 2s. 6s. A 63-inch crah here is a big crab. Believes that the ground is over-fieled HARRISON COMPRE. In previous witness's brother. Commenced erabbing in 1837. There were twice as many crobe in the sea them as there are now. Thinks they have heen over-fished. The lobeters were also twice as municrote-fley have also been over-fished. Agrees with previous witness to throw

LOBSTERS Сапас. Translino.

back all crahs under 4 inches, and all lobsters under 4 inches in the barrel. This would increase the breed. Thinks the trawlers do a good deal of injury.

In-shore trawling should be prohibited, in his opinion. The trawlers could go further over. There are no trawlers in the winter months. Complains that the Scarborough men come and put their pots on the top of the Robin Heod's Bay men's nots. There would be a difficulty in carrying out a gauge on account of the burry Close fines.

in packing for the train. Is in favour of a close season for crabs and lobsters during August and September.

BENJAMIN GRAINGER, shipowner and insurance agent. Has lived all his life at Robin Hood's Bay. Knows of his own knowledge that the crabs and lobstons were more plentiful than they are. The decrease is due to the trawlers and to taking too small fish. Agrees with the sizes mentioned by the preceding witnesses. No crab should be taken under 4 inches, and no lobster under CRABS. 4) inshes in the barrel. A good few flahermen come down from Scarborough to flah in Rohin Hood's Bay. They cannot be stopped. The very small creaks are always sweet. They are so small that they are of very little value. Believes

that the north check of Robin Hood's Bay is the best hreeding place for crabs on the north-east coast. The soft crabs are never sent away from here. Breeding. trags on the incurrence count. Also not cross are heree soft away from the fishermen never bring them ashore. Is in favour of probhiting in-shore trawling, which, in his opinion, does injury to all fish. It would increase the number of lothers to put back the berried hens. But cannot say whether this should be done. Sometimee out of 100 brought ashore 10 will be Transita. LOESTERS.

Berriol. bezzied.

Council Chamber, Town Hall, Scarborough, Saturday, 18th November 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALFOLE, Requires.

CRABS. JAMES HARRISON SELLERS, fish merchant, Scarhorough (exemined by

Mr. Buckland). Has lived 56 years in Scarborough. Deals in crahs and lohstens, and sends them to London, Liverpool, Birmingham, Leeds, &c. Crabs have diminished since he commenced business, both in size and number. The diminished since he commenced business, both in size and number. The diminution began five or six years ago. Thinks that a 4-inch or 44-inch crab chould be a size crab. A 6-inch crab here is a good crab. Thinks that no crab under 44 inches should be taken. Berried crabs are brought into Scarborough at different times of the year. These also ought to be returned to the water. Berried crahs fotch more money than the female embs without

Gauss. Repriet.

herries. Many soft crabs are taken in the trawl nets from October to March. and in July and August. One out of four of these soft crahs are not saleable and not estable. Is in favour of returning them to the water. There is no difficulty in distinguishing between a light crah and a full crah, even in the water. The crahs are put into cold water and gradually boiled. They die long

Bolline.

hefore the water holls as they are drowned, not being able to live long in fresh unter. If they are put into hot water they cast their claws. Lobsters are falling off, both in size and number. The diminution began five or six years ago. A lohater 41 inches in the harrel counts as a full lohater. Below this they go two for one, and below 4 inches (or thereabouts)

LOESTERS. Decrease.

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they go four for one. These are called polks. Thinks that everything under 4 inches in the barrel should be put back into the water. The lobsters usually increase in price by about 1s. a piece in August and September. The prices LOBSTERS. userouse in price by account it. a proce in August and September. The proces George for lobsters are much higher in January and February, than in the summer Price, month. The best lobsters are got in January and February. Begried thens Berried, are chiefly ought in May, June, and July, Feanish hem with berries are called berried may, without berries are called "open heme." Is in favour of returning berried hens to the sea, but they are more valuable than the others. Notwithstanding this, is in favour of returning them to the sea. Taking them

has a tendency to apol the breed.

(By JH. Welpole.) Proposes a gauge for enabs of 42 inches. The North-cast coast crabs are not so large as Torquay and Sootch orahs, and for this case coaster or the crabs of the crabs. increase in size to the north of this place. The crabs are sold within the surrounding neighbourhood. It would interfere with his market if the sale of these crabs were localised in Yorkshire, as a considerable number of small erabs are sent to London, Liverpool, and Birmingham. Thinks it would be impossible to get a sale for all these small crabs in Yorkshire. The 4, inch gauge would suit Leeds market. Sends four times as many crabs and lobsters to London as are sold in the local markets. Yorkshire is not large enough to

CRABS.

OBARS.

take all the crabs caught under 41 inches take all the crals caught under 4; menes.

JAMES DALONO (seamined by Mr. Walpole). Has been a fisherman for 50 years. Has been fishing for crabs and lobsters all that time. Fifty years for the crabing for many fine properties of the properties of ago there were not half a dozan hoats crabbing from Scarborough. There are 50 boats now. Fifty years ago used to take 30 trunks per boat. Now takes birdanges or creeks, and carries 35 to 40 in his boat. Some boats, however, take Old creeks. Fifty years ago used to commence in March, and go on to October.
The fishing searon is the same now. Used to get more biggish crubs in a
trunk than he has ever had in ored. There are fewer enals in the san than Derressee
there were a good deal fewer. The lobsters are also fewer. Has had in the there were—a good uses sever. The courses are also fewer. Inst said in the dold time 100 of a night. It would take three or four nights to get half as many now. There is emb and lobster ground all the way from Filey Brigg to Whitby. Thinks the decrease of crabs and lobsters is due to taking the small one. Has seen crabs taken as small as walnuts. (A 44-inch crab was predated.) Considers it too small. A 4-inch crab is a decent crab, and Thinks that no lobster should be taken under 4 inches in the LOBSTERS. barrel. Has seen the trawlers bring ashore she crabs full of spawn. These Garon. course. Like seen use rawners ofting tenore use cross that or spawn. Likes Gaspoths enable are conglict on the off ground. It should be made likes if for enyone to bring ashore a site crab with spawn. Is in favour of referring all the bestrid lobsters to the see. Thicks that with such a law there might be a danger of the bearies being shipped off the lobster. Doesn't see many light mersel, case in the matter. Is in favour of prohibiting the said of all light evalue. Only

constitute matters. In in tween of positiviting the sain of all light orths.

In the liver of tween of the control of the cont young cash are very white, the old crabe yellow or black. The Scriptorough men come and place their pois on the Robin Hood's Bay ground. No crabs should be caught under 4½ inches; at that size they would be worth a Gauge.

LOBSTERS.

Gauge.

Berried.

28. penny. There is a traje for them at many places. No close season is mantle for either embe reliabetes. They are never fashed during the writer. Thinks that all lolaters' under 4 inches in the hards should be released to the sea. The fithermore, however, get more for the herrich beins than for the other lolaters. There are a great many contrast people at Season-terminal word of the thinks of the contrast of the season of the herrich beins than for the other lolaters. There are a great many contrast people at Season-terminal work over all not agree to put hack the

Enemier

many contentsy people at Sentroctenger with violation agree to put mace use Cod are the natural careains of lobetter. Has seen hobites as well as cralls inside the cod, especially at this time of the year (November). The crabs heigh to mand up in the cold wrether, and at that time the inswires coart get them. The optening into the crain pole was only 45 inchest till last year; has Grongs MARNALAL (escendiced by Mr. Weighold). Has been a faitherman for Grongs MARNALAL (escendiced by Mr. Weighold). Has been a faitherman for

Decrease.

on years. Takes for eachs and belows and all kinds of this. Agrees with persons well as the process of the proc

LOESTERS.

Berriod.

Transling.

Taking this for them prove up to an interface of the province of the province

Thinks that no limit need he put on the amount of tackle each hoat carries,

CRABS.

Sensor than belief were sold by nuclein for a Spirace 100.

Report Hartzon (comined by fir. Recision). Has fixed with early offer for years, with teach for 20 years. Takes with post from Hirry Hings to fire for years, with teach for 20 years. Takes with post from Hirry Hings to different species from the Derouvalies and Society chain, and would never good to the control of the c

Spanning.
Migration.
Gence.

called from the left Aquel to the sent of frame in the travels. This is in water from 3 to 50 althorates day. They are all careful parties. This is on the ground from Tree to Heliquiand. They are 4-inch to 5-inch cache. In his opinion from Tree to Heliquiand. They are 4-inch to 5-inch cache. In his opinion the real cache the red (i) inches. But the must apply to all Lagolou. There are an anany reals sent away from the Yorkshite poles on from all the tota of Regulout. The result halling phoses we sensitive, Nutring, Linde Hood's Bay, Regulout. The result halling phoses we shealth, Nutring, Linde Hood's Bay, Regulout. The result halling phoses we shealth, Nutring, Linde Hood's Bay, I had helicated the contract of the contract of the sensitive that the shealth of the sensitive the shealth of the sensitive that the shealth of the sensitive that the shealth of the sensitive two shealth of the sensitive the brought to market. Thinks the in-there traveling does as much good as born. It kills the limit did with the draw water. Calline of the class as all times of the next in last terminal the sensitive that the sensitive the sensitive that the sensitive through the class water.

Gauge.

as an ensert excess just goes as more good to marm. It fulls to find much movement becomes food for the big ones. The haddeet, and oud are not falling off in the deep water. Catches not cabe at all times of the year in the trawis. As a rule they are thrown overboard, hat sometimes brought sake to the make up bulk or hy mistake. It would not have the trawlers if they were compelled to return the point earlier.

suft.

Never catches he crabs on the Texel ground, but many hundred she crabs with the spawn under the spron. Thinks the she crabs migrate to the ground for breeding purposes. Thinks that the she crabs deposit their herries on the sand there. When the berries are ripe he has seen the berries fall from a crub with a touch. They are deposited in the wager and hatched there. CRAE Knows of no other great breeding place for crubs in the North Sea nearer Agassaniae, than Texel. Texel is 160 miles from Planthorough. If there that here a spother great breeding place nearer Yorkshire the trawlers would have been sure to have ound it. In five years' experience never saw but one berried crah in the pots.

Nevertheless, from April to June there more shes than has in the pots. The crahs off the Dogger Bank are shout 6 to 7 inches. They are chiefly she crabs. JOHN W. WOODALL, Alderman. Owner of a small steam yacht. Is an Oxford man. Was first-class in Natural Sciences. Associated with Mr. Gwyn

Outfoot man. Was first-class in Natural Sciences. Associated with Srt. Curyn-Juffies in Skeltand dredging operations. Believes that the minimum temper-ature of the see on the Yorkire coast in April and May is a low as any just of the North See. 4/P may be taken as the temperature. The temperature. Treasperature the semmer is about 64°. Thinks that the temperature that the semme is about 54°. Thinks that the temperature that the semme is about 54°. Thinks that the temperature that the semme is about 54°. Thinks that the temperature that the semme is about 54°. Thinks that the temperature that the semme is about 54°. Thinks that the temperature that the semme is a semi-timent of the semme is a semi-semme to the semme in the semme that the semme is the semme that the semme is the semme in the semme in the semme is the semme in the semme in the semme in the semme is the semme in the semme in the semme in the semme is the semme in the semme i

minutesize on an sen sammas. Loos not nearer man any agrammon is necessary to stop in-shore trawling. There are many days when, owing to the wind, the smacks are unable to trawl. If it does any injury it is by destroying the small Trauling. fry. Thinks it desirable to put hack all small crabs and lobsters. CAPTAIN HENRY MANN (econsisted by Mr. Walpole). Is acquainted with the ground off Texel. Has trawled on it between April and July. At that

time there are a great many herried crahs. Never saw a he crah there. There Breeding. ums there are a great many herried reals. Never awe a be each three. These Breeings, are a great many class with shell spaces not them there. Of the vertexment of the spaces of the spaces. The space not spaces into the tends of the Degar. That has the state of the spaces of the spa

No legislation ought to be thought of on such a subject. Ao aggistation ought to be thought of on such a subject.

(By A.F. Backland.) Does not think that the destruction of fish by trawlers in-shore does harm. There are 100 fish killed now for one 25 years ago. There are just as many fish in the sea as ever. The in-shore trawling does not hill to many small fish as the deep-eas trawling. The deep-eas fish do not believe the subject of the season of the season

WILLIAM WALKER, A fisherman for 16 years. Has heard previous evidence. Agrees with it and with the gauges recommended WILLIAM PURCELL Agrees with the gauges recommended by previous

witnesses, and asks for protection. By protection, means a law to prevent sale of unsireable crabs and lobstern. THOMAS THOMPSON. A fisherman. Has been enabling for seven years in Scotland, at Anstruther. Has seen both he and she crabs caught there. The Gauge observed.

fishermen there made the rule to return small crais, and did so, and the markets made the rule not to buy any crais under 5 inches. This practice was carried out for 10 years. It proved heneficial, and there are more large crabs caught there than anywhere. It is 10 years since he left Anstruther, and the same thing has been going on since. This practice at Anstruther has increased the crubs in number. Mr. Gellatly, harbour-master, Anstruther, could give information. Thinks that the Anstruther precedent ought to he applied to Scar-borough. With regard to in-shore trawling, the in-shore trawlers do not kill so much fry as the deep-sea trawlers outside.

Artillery Drill Shed, Flamborough, Monday, 20th November 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALFOLE, Esquires. PANTON FILL (examined by Mr. Walpole). A fisherman for 40 years at

Flamborough. Has been fishing for crabs and lobsters. Fishes from Specton Cliffs on the north to Sewerity on the south, six miles north and two miles south, and about half a mile sexumis. When he began there were about 30 beats at Flamborough; there are now about 70. All these boats go out crabbing in the season. The crah season commences at the beginning of April and Scane for. 40353.

Herring statery continues till the middle of July, when the herring season commences. There is very little fishing in the back end of the year. Forty years ago the boats used to carry 24 trunks, in a boat; they use pots now-about 30 to 36 in a boat, CRABS. The boats are small undecked hosts. About 30 years ago the crabs fell off very much; they could scarcely get any, and the fishermen were compelled to go to Degregaed size.

Filey for them. Since then they increased, and they have increased a good deal of late years. There are as many crabs now as when he was a lad, but they are smaller. When he was a lad, the crabs were sold by a gauge. The crabs above 4 inches were sold by the score. Smaller crabs were sold by the lump. The small crabs are more numerous than they were. The biowest crabe are off Flamborough Head; there is more length of rock there. crabs at Bridlington and Specton are falling off. Of the two, the crabe at Specton are larger than those at Bridlington. The east winds destroy a great many crabs in Bridlington Bay. Fish also destroy a great many; but taking the

LOBSTERS.

Weather

small ones, no doubt, increases the loss. All the fishermen admit that it is no use bringing the small crabe ashore. Is of opinion that it would be a good Lobsters have been very searce for many years. Some of the lobsters are large. They are larger than the Searborough lobsters. Thinks a lobstergauge would be a good thing. The smallest lobsters are no use. Doesn't want to say what the gauge should be.

CRABS. No soft crabs or lobsters are caught here. It would not hurt the fishermen Soft. here if no soft crabs were brought ashore. Berried crabs are not brought ashore here; but the smacks bring many ashore. Is in favour of stopping

this. Berried lobsters are brought ashore. They, however, are the finest lobsters. Does not think this can be stopped. Berried lobsters come ashore LORSTERS. at all times of the year. CRABS. WILLIAM STEVENSON (examined by Mr. Buckland). Lives at Flumberough. Has fished for crabs and lobsters for 20 years. Fishes where the preceding

thing to return all crabs under 4 inches.

Har fished for orabs and lobsters for 20 years. Finite wars or the state witness fishes. There are about 70 boats here, carrying 30 pots or thereshouts. The timing ground embraces about 10 miles of coast. The bottom of the sear Carl's say what the ovelar feed on Commences feeling about the beginning of April, and continues till about the middle of July. The emb-post see down from one and of the assoon to the other, but are hitled coassionally from time that the state of the commences of the continues of the continues that the best of the continues of the continues of the continues of the continues of the best of coast, and think this is beneficial to the fishery. Has thrown four or Season for.

five berried crabs back in a night. The berried crabs would be 5 inches and upwards. The largest are 7 inches. The berried crabs are mostly big crabs. upwards. The largest are / mohes. The berried crabs are mostly big crabs. Has no idea of the age of crabs. Thinks the crabs come in to enawn from the doep water. Is in favour of returning all crabs under 4 inches. Adberes to the opinion that everything ought to be kept above 4 inches. Soft crabs are always returned to the water; would not object to a law compelling the return of soft crabs. Is in favour of this law applying also to the trawlers. in the pots, which the crabs enter, are 4s to 5 inches wide. Soft crabs are caught here, but he does not eatch them himself. LOBSTERS

There are a few lobsters here. A full-sized lobster here is 44 to 5 inches; 3 to 4 inches is the average size. Is in favour of returning the small lobsters to the water. No gauge has been used at Flamborough for lobsters for 20 years. No lobsters should be taken under 4 inches in the berrel. The berried hens are reckoned more valuable than any other. The buyers woold FRARS

give 6st more for a berried hen than for any other lobster. The crabs crawl best in a nice ground swell after a storm. They call this a "crab swell." Does not require a close season.

William Crows (essented by Mr. Walpole). A former at Flamborough. Sent half a dosen small crabs to the House of Commons when he saw the Norfolk Bill in the House. The buyers asked him to come and say that no crab ought to be sold under 45 inches. They buy crabs of any size in the town; they buy the fish in the season, and send them to all parts. There

are about 10 or 12 of them at Flamborough, and they are unanimous in wishing no crab to be taken under 42 inches. SAMUEL CHADWICK (exumined by Mr. Buckland), A fishbuyer at Flamborough. Has been so for eight years. Buys cenbs and lobsters. The crabs have not fallen off during the eight years, either in size or quantity. Before he was a buyer he was a fisherman. It is 35 years since he commanced fishing. At that time very few small crabs were cought. The small crabs were given to the boys for pocket money, and they could get £4 to 3d. of a morning. Now the Prior. boats get nearly Se. for small crabs, 3\(\frac{1}{2}\) to 4 inches long in a morning. Thinks that all orabs over 4 inches should be kept. The crabs which he hays are hawked Gauge. in the country, and are not sent away to distant markets. The small crabs

bought by the poor people. The population of Flamborough are two-thirds fitting and one-third agricultural. The orabe are hawked about among the agricultural class. Can always sell little crabs. A 33-inch crab is worth a halfpenny in the beginning of the season; a 4-inch crab is worth a penny at any time. Does not agree in Mr. Crowe's recommendation that a 43-inch gauge is

advisable SETERADO.—

The said them as mail as of index in the hard. This is these only to be returned to the voter. They are worth 5d ends, but there is very little in them. Kverything over 4 inches might be taken. It is flavour of ishing bertied labeths entenne they self to so much more properties. In flavour of their governed to the constant they will be the self-thing of thing of the self-thing of thing of the self-thing of thing of thing of the self-thing of the

crabs to the sea. A fisherman can only sell a 4-inch crab for three or four a penny. A 44-inch crab is plenty small enough to be taken. When he was a Gauge.

hoy he took nothing under 45 inches. The smaller ones were given to the lads. But it would not be possible now to have a larger gauge than 44 inches, as to many men are dependent on the crab fishing.

Very small lobsters are brought bome, but all under 4 inches in the barrel should be returned.

When he was a boy he could get 100 large crabs in a night, of 5 inches and owards. There are not now 20 large crabs to be had in a night. There are more small crabs and fewer big ones. The holes of the pots are 42 inches in Pots.

diameter but stretch to 51 inches. Rommer Education (constituted by Mr. Backland). Has been a fighterman for 40 CR rears. Is in theour of a 4-inch gauge for orabs. Thinks if the gauge is larger game. years. Is in favour of a +-inent game for crains. I times it the gauge is stepf dose, then this there are namy spools in Hamborouch who will be made be given in hirting. There are about 10 bout the times of the times of the state of the state of the living. There are about 10 bout the time. The truviers in Beillington Bay come Migerials. close in short. They eathly ago durany crabs at times. Never in his life odd a noft each. They are always returned to the zea. Is in favour of returning and the state of th

as they are very valuable. The population of Flamborough is 1,573, twothirds of whom are dependent on fishing.

Piers and Harbours Commissioners' Room, Bridlington Quay, Monday, 20th November 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALFOLE, Esquires. SPINK BIRRSALL (examined by Mr. Bucklend). Fish merchant at Bridlington.

Has been huying fish for nine years. Sends the fish to Hull, Nottingham, &c.

The crobs are too small for London. Does not think that the crubs have fallen. No decrease. off. Crahs in this place run very small. They consider a 4-inch crab a very good crab here. Two-thirds of the crabs here are less than four inches. great many crabs under 32 inches are brought ashore here. The only markets for these crabs are at Hull and Nottingiam. The Manchester, Liverpool, and London markets won't take these small crabs, and require a 5 or 6 inch crab. Is not in favour of killing enabs so small as 34 inches. The crubs are sold by Graya, the barrel. The price per barrel has not increased. Is in favour of returning all crais under 4 inches. If the gauge were larger than this it would not pay the fishermen to go to sea. Believes that the crubs here are brood from

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CRABS.

LOBSTERS. Berried.

CRAES.

LOESTERS.

CRABS.

CRARS

Flamborough Head. Very soldom sells berried crabs. There is a market for them, but the men won't bring them ashore. Casted, soft, or light crabs are not taken here as a rule, they are returned to the sea. There would be a difficulty in enforcing the return of the small soft crabs, as they are shot by the basksiful into the barrel.

LOBSTERS.

There are very few lobsters here. Some of the lobsters that do come are very large. Has had them weigh 5 or 6 lbs. The average size is 1 lb. or 11 lb. They are never gauged. A tale lobater is 41 inches in the hazel;

CRARS

below the tale they go two or three for one. They eatch berried lobsters all through the year; they are most numerous in the summer. The berried lobster are more valuable than the others. A berried lobster worth 1s. 6d. after it had cast its berries would be worth 1s. Does not think that a closs season

is necessary for crabs and lobsters. They both retire out to sea in the winter.

JOHN WAROOT (exomised by Mr. Walpole). Has been a fisherman about
48 years. Fishers at Bridlington, from Guay Pier to Fishnborough Dyke. The boats seldom go to the south. From Quay Pier to Flamborough Dyke is about 3 miles. The bottom is chiefly rocky. The fishermen fish from 3 feet about 5 mines. The observance cannot recept, the materines were the fathoms. The 5 fathoms water is a mile out. Last year there were 15 or 16 boats fishing for shell-fish at Bridlington. The number is increasing. There is a good deal of weed on the bottom and patches of sand.

Crabs are undoubtedly decreasing in number. Forty-eight years ago there were great quantities of crabs got. There are not half so many now. The smallest crabs are towards the Quay, the largest towards Flamborough. Forty-eight years ago the bosts very seldom came this side of Southsea landing place to catch crabs. Now they come there and catch the small crabs. There are two causes for the decrease of crabs; viz., 1. The increase of boats; 2. The capture of very small crists. By the increase of boats means that the tale is divided among more men. The capture of very small crabs has resulted from fishing south of the Southses landing place. Believes it would be beneficial to the public and the fithermen to have a limit of size for crabs. Three fishermen last year had a gauge made of 44 inches, and made an agreement to bring nothing under 42; they wanted to prevent the capture of all crabs under that size. Retains his opinion that an institution of such a gauge would be bene-ficial to the public and the fishermen. Thinks that by this limit some immediate sufficing may occur, but that future benefit will are.

Games. Spanishing.

The smallest crabs are towards the Quay. The water is shoul there, and the tide is easy, and this is a great nursery for crabs. Some years ago beats could go from here and get quantities of decent size crabs from 45 to 7 inches. They cannot do so now, and this is due to killing the small crabs and the seeded crabs. Some people throw away the seeded crabs here. Others take them. They are of very little value. It would be a great blessing to have a law saying that no one should eatch a seeded crab. There are a few soft crabe killed here in August and September. They are full of water and good for nothing. There are not many estehing them. The grab fishing commences in April and lasts eight weeks, and there is no crab fishing during the rest of

LOBSTERS. Gauca.

the year. There are very few lobsters here. There would be no objection here to have a gauge for lobsters. It would be reasonable to say that no lobsters should be killed under 4 inches in the barrel. Would not think it unreasonable to pro-hibit the capture of berried lobsters. The fishermen in some cases might strip off the bernes but could not do so without detection. Is in favour of a law

Pole.

prohibiting the capture of berried lobsters. (By Mr Bickland.) The number of pots carried by each boat varies from 30 to 50. There are 15 to 16 boats. The pots are put as the bottom of the sca and left there. Thinks that the crabs bury themselves in the sand in the winter, and draw into shore as the spring comes on. Has seen crabs smaller than a shilling. There are thousands sent to market from here under 21 inches and sold five and six for 1d. Crabs are not broken up for heit here. The

and soid live and as 1 or 16. Crass are not droven up not one test for pots here are usually baired with plaice. The bair cannot be too fresh for crabs. Crabs cravi mostly after a storm. The pipe for the erab pots is from 43 to 5 inches. If the fishermen were tied to the size of the crabs they would have to alter the mesh of the crab pots. Cod fish est crabs, but do not do much harm to them. There are a great many crabs boiled here. They are put Boffine. into cold water and gradually boiled, but are dead from drowning before the water boils, but some are plunged at once into boiling water. The lobsters are CRABS

tied not plugged. James Scottar (examined by Mr. Buckland). Has been a fisherman eight

years at Bridlington. Before that was at Filey. Has been four years catching crabs. Catches them chiefly towards Flamborough. Thinks the crabs were bigger this year than in the three previous years. Heard Mr. Warcop's evidence. Thinks that to return the small crabs to the sea, would, after two or three years, be a benefit. During the years when the crabs were growing some of the men would not be able to keep their families. As a orab catcher, would like to stick to present plan. Has been some days getting 14 to 25s, a day for small crabs Price and 7s, to 8s, for hig ones when there were no small ones. Would for his part have no gauge at all. The male crabs are not all 16s, a banket, and there are 10 or 12 score a banket. Her many a night cought 300 little crabs. It would be a great advantage, after two or three years, to let the little crabs grow, but be a great streamings, after two or three years, to tels the little embal grow, but it would be a serious pretent injury. A 4-inde guage would be plently small enough. A man might get a living with a 4-linch guage. Stops fishing hefore the erabas are soft. Some of the nees go on latter. Cannot can what the stem eather it is not because an old seeded Berried. It ought to be likegal to catch soft crabs. Only sees an old seeded Berried. This state it ought to be likegal to take them.

There are very few lobsters bere. Only caught three last sesson. They LOBSTERS. were 5 to 6 inches in the harrel. Agrees with previous witness that no lobster Berried, should be taken under 4 inches in the harrel. Thinks also that the berried Gauge.

lobsters ought to be tossed overboard.

(By Mr. Buckland.) Cannot say why the crabs here are so small. An S-inch CRABS. crab is a very big cash here. Very few of these are taken. Knows the Cromer fishery. It is 7 miles from Flamborough to Bridlington. Believes that the small crabs here are a distinct species. Thinks that a crab grows an inch a year. They grow an inch when they cast their shell. Believes they shed their Griech. shell once a year. A 4-inch crab is worth 1d. A5-inch crab is worth 2d. or 3d. The little 4-inch craits are very sweet. The craits are sold to the fish buyers.

Sells the crabs also by hawking. RICHARD BEDLINGTON (excessed by Mr. Buckland). Has been fishing for ershs for 20 years. Used to use trunks when he began. Twenty-four trunks Trunks. made a fact. They required constant attention. They were set about S fathoms from each other and in 3 fathoms water, and were lifted 15 times a night. The crahs then were quite as small as they are now. Would get 20 small 31-inch crahs for one big one. The crahs on this coast are small. There were six or sering some of the state of the

railway was made. Before that the crais were sent in carts to Hull and York, 30 and 40 miles. The hottom is rocky, with clumps of clay. The crabs get into holes in the clay for the winter. Believes if the small crabs were spared. unto more as one cas for the winter. Denotes a man and a state of partial they would never grow into hig ones. Can't say why the crabs are smaller here, but they are smaller. Thinks the gauge or crabs should not exceed 4 inches, but might do at 43 inches. Thousands would have to be thrown gauge. When the state of th majority of the fishermen are in favour of a t-inch gauge. Would himself advise 42. There are 40 fishermen.

There are very few lobsters cought here. Has caught three this season, LOBSTERS.

about 8 or 9 inches long. Is in favour of a gauge for lobsters, but can't say Gones. what the gauge should be. Thinks the ground here is too smooth for lobsters. The hottom of the sea here is levellish rock. Round Flamborough Head there is a good lokster ground. Berried hens should all be put back into the sea. The proper way to restore the lobster fisheries is to return the berried hens. Breviol. There should be a fine of 11, for taking them. There is no trawling on the rocky ground where the crabs are. Believes a crab shells its shell every year. There are a good many dog crabs here. They come into the other crab pots. Every- Sept.

body puts back soft crabs, which are of no use to anyone.

John Grinson (examined by Mr. Walpele.) Has been a crab exteher 28 years. The crabs were not so small in Bridlington Bay 28 years ago as they Decrond size. are now. They began to get small three or four years afterwards. There are more now on the ground than there were, but more little crabs are taken.

Is in favour of stopping the capture of little crabs. Thinks a l-inch gauge, Gauge. however, is big enough. If there were a 4-inch gauge it would be no use

CRABS.

ORABS. Berried.

going to eatch them in April and May. Never took a berried coab in his life.

Is in favour of a law compelling their return to the water. Very few people take soft crabs, and it ought to be illegal to take them. Has caught very few lobsters. Thinks that seeded lobsters ought not to be taken, and that no lobster under 4 inches in the barrel should be taken. In April and May the grabs are small; later on the larger crabs come in.

Coastguard Station, Hall Sands, Tor Cross, Tuesday, 5th December 1876.

Presence . FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

George Wells (examined by Mr. Walpole). A fisherman at Hall Sands for 30 years. Has been fishing all the time for crabs and lobsters. The ground is off Hall Sands towards the Start, and off Prawle Point to the south of this place.

om Hail Sanna surmards the Starts, and our Frawic Foint to the south of this place. This is about 10 or 12 miles long by 3 knowd. There are about 30 hoats at Hail Sanda and Beeson Sands. The boats increase every year. There were not half so many hoats 30 years ago. There is no lack of fish, but some seasons are better than others. The shell fish are sent to market, some by land to Dartmouth, and some by smacks. The price has increased very much. 30 years ago it was 9s, a dozen, 12 crahs, 8 inches across the back, a dozen, The price now is 18s. a dozen. Lobsters are the same price. They fish all the year round if the weather permits. Was always in the habit himself of fishing all the year round. Used crab pots 30 years ago, and does so now. The beats carry from 30 to 40 pots. There are a large quantity of crabs caught now, but there are more fishermen to divide the take among. The crabs are as large as they used to be. The crabs at this time of the year are a little pithy. May catch soft crabs all the year round. The soft crabs are all hove away. See a few berried cashs. Those that are berried are in December. The berried crabs are mostly thrown overboard. Catches very few crobs below 5 inches. Is in favour of a law prohibiting sale of all erahs under 6 inches. Is in favour of a law for return of all soft crabs, and of all herried crabs. The crabs are berried in December here, and the soft crabs are in the spring of the

Berried. Gauge. LORSTERS. Decrease.

Stft.

This is not much of a lobster country, and the lobsters are not quite so plentiful as they were. Some seasons a good many are caught. The smallest lobsters taken here are 9 or 10 inches in length. A gauge would be no good here, hecouse no small lobsters are caught. Takes some herried hens here in the spring and fall of the year. The fishermen can't spare the berried lobsters as most people are after them. It would not do to have a law of the return of berried lobsters.

Templers.

The Brixham trawlers come here and surape away the pots and sweep everything before them. Thinks they do a great injury. Some of the crah gound is on the Sand where the trawlers come. Is in favour of prohibitiog trawlers coming within the headlands. Would keep them out of the lay altogether. Has himself lost scores of pots from the trawlers. Lost some this year. Lost four or five last year. Has seen trawlers shoot their nets right among the pots, so they couldn't help cutting them away. WILLIAM HUTCHINS, of Berson Sands (exemined by Mr. Buckland). Has

Weather.

been fishing 30 years. There are 16 hoats at Becson Sands, and about 16 here. They fish all the year round, but the weather stops them a good deal in the winter. The ground is about six miles long and three miles broad. The ground is all sandy. Does not think that the grabs have fallen off. Always returns the beyind

CRABS. Growth.

Does not mink that the crace are same ances on. Mayor or crabs. This has always been the enstorem. The largest crabs are 11 or 12 inches scross the back, and weights 11 or 12 lbs. The crabs are better quality here than at the Land's End. The smallest crabs here are 6 inches, and none less than that ought to be taken. Thinks that a crab grows very quickly after it has east its shell. Sees small crabs about an inch long, in the spring of the year. The pets are baited with ray and gurnard. The price has not increased

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of late years. He sells his crahs to Mr. Scovell. Is in favour of returning all or interpretable the scale his craise to Mr. Scorott. Is in favour of returning all caches under 6 indies. The Besson Sands men are all in favour of this way Gray-Would like to see some key problibiting inhere trawling. They carry saws of the pots, and, in the fall of the part, hap destroy a great many she crait. Most of the soft craise are in Matrix, April, and May. The soft crais he could alled ripe craise, and see ought all they are round. A said is always on the top of Breeding-ripe craise, and see ought all they are round.

a ripe crab whenever she is caught.

Thinks the trawlers should be probibited from coming within the Becson Sands, or within 3 miles of the shore. The trawlers take away sometimes 30 or 40 pots a night

The higgest lobsters here are 5 or 6 lbs. All lobsters over 11 inches are measured lobsters. Below this all go two for one. The smallest lobsters here run from 9 to 10 inches. The ribs of the pols are 2 inches apart. Is not in favour of returning herried lobsters. Is not in favour of any close sesson.

JOHN ROPER (examined by Mr. Walpole). The fishermen here are chiliged Dops to keep dogs, hecause, when the wind is eastward, its dogs have to go from the shore to the best with a line in their mouth to enable the best to be hauled in through the surf, which is very heavy. There are three or four Newfoundland dogs kept in each village for this purpose. The dogs have to be trained for them. Thinks it a hardship that these dogs should be taxed, as they are really kept to save life. There are eight dogs altogether to attend to 30 boats.

N.B.-A large number of fishermen were present; all were unanimously of opinion that a law should be made compelling the return of :-

All crabs under 6 inches.
 All berried crabs.

3. All soft crabs.

The Union Inn, Prawle, Tuesday, 5th December 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALFOLE, Esquires.

ROBERT PHILLIPS (exemined by Mr. Buckland). Has been a fisherman for eight years. The ground extends about half a mile east of Prawle Point, and some years. The ground extensis accordant a must estif or traver (John, Ann. Mall a mile word of Prawle Point, Filte for order and point of years are five boot been proved. There are five boot been proved. The point of years are five boot been proved to the provided of the provided provided by the provided p september to Christmas. Catchies more he craise than the ends in the fall of the year. The six crabs are caught in the summer. Has seen crabs 8 inches across the shelf. Below this they go two for one. There are more crabs above tinan below 8 inches. Talkats no ends ought to be taken below 6 inches. Gampet Woold be in favour of a law to bias effect. Would be in favour of returning all she crabs during the last three months of the year. But this would not do in the summer. Catches light crabs in the summer, but they are hove overboard. The he crabs are hove overboard. The females are used as last. A Und for bail.

great many crabs are used as buit for bream. The lobsters are not so thick as they were. Thinks the decrease is due to LOBSTERS. killing all the herried hens, and is in favour of returning all the berried hens and is in favour of returning all the smallest herried for favour of returning all the smallest herried. lobsters.

RICHARD PUTT (consisted by Mr. Walpole). Has been a fisherman nearly 50 years. When he began there were three boats, they increased afterwards to six. There are now five heats; there have been as many as seven. Always fished with pots, as he does now. When he began used to buin in February or March, and knock off in September. There is seldom any fishing beyond September now. Cannot catch half so many crabs in the some quantity of

CRAIRS.

LOBSTERS.

CRABS.

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Glose time.

note as he could 50 years ago. The crabs are decreasing. This is due to over-CRABS fishing. Thinks no she crabs should be taken from Michaelmas to Lady-day kerreses. They draw into the shoal water to epawn. If this were done has no doubt it would improve the fishery. No crabs are taken here under 6 inches. The female crabs are taken between Michaelmas and Lady-day for bait. There would be no difficulty in getting other heit. About thie time (December) the Migration. she crabs are berried; they are berried in December, January, and February. Reveied. In the spring no berried hens are seen. After the spring they see a great

many soft crabs. LOBSTEES.

There are not so many lobsters caught as there used to be. Since the French began catching lobsters in France 30 years ago they have fallen off. Sees most berried lobsters in January, February, and March, and is in favour of prohibiting the capture of berried hens in these months. The trawlers destroy a great many she crabe in the winter months. The trawlers ought to be compelled to return these. Has no other complaint against the trawlers. No crabs now are sent from here to market under 6 inches. Thousands of crabs are destroyed for bait all the year round. They

Transfers.

are broken up as bait for the hooks, and is in favour of prohibiting this. use them as buit for compore or wracse. There are 10 fishermen here. Believes Hope and Anchor Inn, Hope, Tuesday, 5th December 1876.

PRESENT

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

CRABS. JOSEPH HARGATE (examined by Mr. Walnole). Has been fishing 35 ver for crabs and lobsters. There are 12 to 14 hoats here. Fisher from Bolt Tail to Bolt Head, nearly up to Salcombe Harbour, five miles from east to

west, and in some places six miles out to sea. Begins fishing in March, and goes on till the middle of August. In the autumn goes on to the pilchards. There are as many crabs now as there were 35 years ago. Some of the crake No decreese. are very large. All above 8 inches count as one, and 8 inches they go two for one. The similant crab they take is about 6 inches. There are very few takes under that size. They take no soft crabs, if they do, they heave them away. LOBSTERS.

littled take size. Lucy take in our cause, the cribs are sold to Mr. Locke of South-ampton, who sends smacks for them. There are as many lobsters now as there were 50 years ago. No law for lobsters is noessary. They never catch No decrease.

they all agree with this evidence.

here any lobsters under 8 inches. William Thornton (essentiated by Mr. Buckland). Has been fishing for 35 or 36 years for crabs and lobsters. They set about 50 pots per boat. Skate ray, and commors (wrasse), see used for bait. The pots are set in March and CRABS. taken up in the middle of August. The best time for catching crabs is after a ground swell. Thinks the crabs live by suction. After August there is not ed of.

a crab to be caught, and be thinks that they go and bury themselves. The trawlers catch the crabs all times of the year. The steamers do a deal of injury Migration. by cutting the strings of the crab pots with their screws and naddles. This is done actidentally. The bottom here is rocky. There is very little sand. The trawlers cannot work here. The pote are set in water from 13 fathoms to 40 fathoms deep. After August, when they leave off orabbing, they go on to the other fish, and recommence crabbing in March. They never see a berried

erab. They never eatch any she crahs (Queens) until May. Is in favour of returning all crabs under 6 inches. Crabs here are never broken up for buit. CHUTTEE The lobsters have not much decreased. Catches the berried lobsters all through the season. From May to June they eatch very few lobsters, but eatch more in July and August. The smallest lobster they can see is about 4 to 6 inches. The gauge of the lobster is 11 inches. All below this go two for one. These above 6 inches long are thrown overboard. The smacks would one. These across the contract the contract of the contract the contract the contract the contract think that they fall off in quality in that time. They keep best in the winter. They are nicked before they are Store note.

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put in the store pots. They are not plugged now. Is in favour of retaining berried lobsters. Purchasers like them. AMBROSE AsH. Has heard the above evidence and agrees with it.

N.B.—There were a considerable number of fisherman in the room who also expressed their concurrence in the foregoing evidence.

The Guildhall, Plymouth, Monday, 6th December 1876. PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

JOHN ROACH (exemined by Mr. Walnole). Has been a fisherman at Plymonth for 40 years. Has been fishing for crahs and lobsters. His ground in the

summer is 3 miles beyond the breakwater. The ground is spotty. Rocks, and, mal, and stones. The ground is extensive. There are 28 hoats come there. They come from the Yealm, and are mostly in the crab way. They generally begin fishing in March, and go on till the pilebard season commences. Pilebard february in August, when they are obliged to take up their pots to get them out of the way of the nots. There is very little fishing during the remainder of the year.

CRABS

It is too stormy to kesp the baskets out. There are not so many crabs and lobsters on the ground as there were 40 years Decrease. ago. Twenty-siv years ago, there were in his father's time only eight boats on the ground between the Plym and the Boit Tail. Now there are nearly 100 hoats on this ground. The hoats could then catch 70 or 80 tale crabs a

day. The boats now could only catch 7 or S or 10. There are more crabs caught now than there were then. But the boats go over three times the ground and three times as far out. Has no doubt that the crahs are diminishing in numbers. After June can catch no large male crabs, only she and small ones. Berried. Thinks this decrease is due to over-fishing. They never catch beyried crabs They always throw away small crabs under (say) 5 inches. Does not see what regulations are applicable to this. Complains of the burges coming from the oil of vitriol stores tipping their refuse outside the breakwater. Has picked up Pollution. scores of crabs burned by this refuse. Thinks the decrease in the crabs here-ahouts is due to the refuse from these barges. This has been going on two or three years or more. Used to catch a good many crabs here. Since the practice began has caught nothing. There are tons and tons of stuff thrown away

in fine weather; it is done mostly in summer when he is fishing. The refuse is white, like mud. It is refuse lime. LOBSTERS. Lobsters are not decreasing so much as the crabs. Thinks they are quicker in the water and get away from the stuff. The lobsters, however, are not so

plentiful, as there are more fishermen after them. There could be no harm in a law making it illegal to kill all crabs under CEABS. 5 inches. It ought to be adopted. Nor would there be any harm in a law to make it illegal to kill a herried forced.

erab, or in a law to make it illegal to kill soft crabs. There are more soft she crahs in June and July than at any other time of Soft, the year. The he crabs then bare always a she crah with them. Never caught but four berried crabs; this was in the spring of the year. The soft crabs are

generally in shallow water in sandy soil LOBSTERS. There would be no harm in a law to throw away all lobsters under 8 inches. name would be no arrain in a law to throw away all looseers onner 8 inches.

Catches many heried lobsters. A taches them all the year round. They cast Grays,
their heritain May and Juna, and are heried again in September. They ought
to be known ways in May and Juna, but not during the rest of the year. One time.

There are no berried lobsters under 1½ line. or 2 line. Once caught a berneal
and of it inches; but they are greatering. The control of the c

JOHN ROACH, jung. (excusined by Mr. Buckland). Has been a fisherman for crabs and lobsters for 10 years. Fishes with pots. Rings were never used Pots. here. The entrance to the puts is 10 inches across the mouth. There is about

3 inches between the ribs of the nots. Fishes about the harbour inside and outside the breakwater. The crabs don't shift their ground much. They don't come to eat the refuse in the harbour. Does not know what they eat. Uses gurnet,

CEABS. Bait for.

rays, and wrasse for bait. Anything white attracts the crabs. Usually begins fishing in February, and goes on till November. Under 8½ inches the crabs go two for one. Above 8½ inches the crabs are tale crabs. Catchies sometimes very small crabs, but returns all under 5 inches. Does not think that the crabs leave their hads in the autumn time. Most of the she crahs (locally crafts leave their hous in the autumn time. Most of the low comes (nown) known as " gouch crafts") are caught in June. Believes there are two distinct species of edible crafts; one which is large, the other which is small. Has been

Species of

to a place near the breakwater every year, and caught small ceahs and no large to a pilec near no necessary or every year, and canger small cours and no large once; therefore concludes that the small carbs are a distinct species. The colour of the enalsy varies with the ground. Thinks this pilece, where the small reads are caught, is a nursery for them. The largest erab he ever saw was shout. 10 lbs. This seen opsiers stituched to crobs. Cannot tell their ago. Has see exclusion to the control of the should be put back. Knows a high teach. Catches them as the same time as back into the water. Knows a light crash. Catches them as the same time as the soft once, in July and August. Inside the breakwater, where the solt is muddy, the crabs remain soft all the year round. Complains of the refuse from

the vitriol works, which hurns up and destroys the crabs. Does not see this pollution washed on to the shore. It remains like cement when it is once down. There are three boats at Plymouth now where there used to be one. Twenty-five and thirty pots a boat. The pots are set about 40 fathoms apart. LOBSTERS. Does not think that the lobsters have fallen off, as there used to be only 30 baskets fishing, and there are now 80. Does not think that the lohisters are heing over-fished. The one boat oaught 25 lobsters; the three catch about 36 lobsters a day. The smallest lohister he has seen here is about 5 inches, the largest lobster about 6 or 7 lbs. Thinks that an B-inch lohster might he kept; No decrease.

Spaunier.

but that all under 7th inches might be put back. Thinks the lobsters live by snotion. Catches herried hens all the year round, mostly in June and July. He fishes inside the breakwater. His father—the previous witness—fishes out-Polisticus. side the breakwater. The pollution does not come inside the harhour; but the fishermen complain that the pollution injures the pollards and other fish. Does not know whether it affects the salmon. Berried hens do not fetch more than any other lohster, but the fish merchants are very anxious to have them for sauce. Thinks that all herried hens under 14 lbs. should be returned to the sea. Cannot say what length a herried hen of this size would be. It would be impossible to throw hack all the herried hens as 9 out of 10 lobeters are herried. The crabs are sourcer in the 28 fathoms water, which is only fished for six weeks in the year, than in any other part of the fishery.

The hottom in the deep water is also nocky. No close season here is necessary. They can only fish in April, May, June, July, and August.

C. Spence Bars, F.R.S. Has been appointed by British Association to CRATES. make incurries into the crustaces. Finds from inquiries that though crahs are No degreese. not increasing to meet the demand of an increased population, there is no general decrease in the sea. The female crabs are of little value, and are niways given by the trawlers to hove, and sold in this neighbourhood by only four women who purchase them of the boys. There are five trawlers on this part who bring in four or five dozen she crabs daily; sometimes as many as 10 dozen are brought in. On the 11th November from 50 to 60 dozen crabs (nearly all females) were brought in, but on that day many Brixham boats were driven in by stress of weather. These were all taken inside the Eddystone in 30

Spanning.

fathoms water. The she crabs at this time have their ovaries well developed, and the internal shell is haginning to form. The berries will be exposed in January, and carried till May. Soon after that the berries are hatched out. The shell of the egg always remains attached to the mother's apron till her shell is cost. In May the water is tinged with the young soes of the crab. Thinks the she crahs gradually work in towards shore shout this time of the year. In May they hatch out, and afterwards they cast their shell. When they are free from their shell, impregnation takes place. The shell cannot be east, except on hard ground, where they can eatch hold of something. Has

Breeding.

himself seen a crah cast its shell, and the same crah almost immediately after-wards in the act of copulation. This he saw with the show crab. Thinks there is only one species of edible orab. Thinks that the small size of the crabs on the cast coast is due to the temperature; and that Comwall, where the largest crabs are taken, is the central babitat of the species. There is only one edible crab caught in Cornwall or, as far as he knows, in Great Britain. Species of

one colors can congent in commutato, as fire as he known, in treat birtism. In kinself in favour of returning all she such it from fiscal to May, Found in one she cash 2,00,000 of one. They are very abundant. A female cush now (December) is as good as a male cmb. Crais ocat their shell much has situation and constantly when bey are old. In the constantly when bey are old. In the constantly when bey are old. requently. Has seen the crabs in a continuous line from the ross upwards Is in favour of a gauge to prevent the capture of the little ones. Does Grossia, not think that the crabs, in deep water, hiberoate in the mul. The crabs in shallow water do. The crabs, which the trawlers bring in now, have their

in somewow water to. And cause, where it is taken as the same some in the first of the conditional term. In in favore of protecting the formales and the small fish.

The lobsters usually taken out their eggs in June. In December the own are carried. In June or July the young are hatched out. They carry the eggs during the whole of the intermediate period. Is in favour of protecting Breefing. the female lobsters in May and June; thinks there would be no harm in

this Thinks the crayfish are not made sufficient use of. Has no evidence to show CRAY-PISH-

whether they are migratory. The lobster is an article of luxury, the crab is an article of food. If Norway Fatter of LOBSTERS. sends herried lobsters into the market in the summer months, it is all the more reason why the native lobsters should be protected in those months. Norwegian. Never heard of a Norwegian lobster being caught here. Thinks the sky

blue lebster from North Wales is only a variation of colour. JAMES CAVILL WILLCOX. Has taken great interest in the sea fisheries for 40 years, and has studied them both on the coast and in the Channel Islands. Righteen years ago, when the Keyham works were commenced, all the fifth Pattations. from the excavation was thrown out into the sea. More or less, this has been going on ever since. The old fighermen at the time prophesied that it would he an injury. Thinks that this has injured the crab ground by filling up the

holes and destroying their food. Thinks this injures the whiting ground and everything. It is a very hifficult thing to make a close time for either crabs or lobsters. The traviers take great quantities of crabs at this time of the Treaters. year. The Admiralty has jurisdiction over the trawlers.

Wembury House, Wembury, Plymouth, 6th December 1876. PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

JOHN FORSTER (associated by Mr. 19 John) of the been a fallerment at News for 43 years, fishing, for reals and below. Same beant fish close to Same fine the set of the form of the Bolt Tail, from miles out to the the tensor of the Bolt Tail, from miles out to the Tail is also solely smiled the Vest Ruts and the Esse Ruts. The bottom is mostly rocky, with putches of and. The shocket wrater on the East Ruts is 7 fathoms, deep. The deperture water is 26 fathoms. Used to fail in the

same place 45 years ago. Forty-five years ago there were seven or eight hosts on the ground; now Bosts-there are 12 or 13. The hosts used to carry 20 pots; they carry now 30 pots. Commences fishing about the middle of February if the worther permits, but the weather rurely permits till March. Continues fishing till August, and Westersome boats continue later. The days get sborter then, the weather gets bad, and the year worn out. Thinks that there were rather more shell fish on the ground then than there are now. But there is very little decreese. The price . has risen, but bait and gear have also risen in price, and the net profit is almost the same. Thinks the fishery is in good condition. Does not know that anything could be done to improve it. Thinks that he has not caught one berried

ORARS. grab in five years. In the beginning of October, the year before last, had 20 dozen crabs in the store pots; they were there for some weeks; and in the gozen crants in the source poet, they were the berries on them. Thinks from this Berries, that the crabs go to herry in October. That year bad gone on crabbing to

the middle of October. He was getting old, and had given up netting, and CRARS. so had gone on longer than usual crubbing. Frequently estehes soft crabe in February when he begins fishing. Throws

them overboard. Finds the soft he crabs at the same time as the soft she crabs. By the soft crabe means crabs with brittle shells. Makes a market with the best of the fishery. All he can induce the captain of the smack to take, he sells. There is ever little in the soft crabs but water. They are called

here pale caules. The highest price for he crabs is 15r. a dozen, the highest price for she crabs is 3s. a dozen, as a rule. The trawlers in the winter catch are number of herried crabs. Believes they throw away the beeried crabs.

It would be a good law to prevent the capture of all beried crabs. They return them now. It would be a good law to prevent the soft crabs being taken; and to prevent the sale of all crabs under 5 inches. The lobaters are a great deal scarcer than they were. There are more persons LOBSTERS. after them. Catches berried lobsters all through the year. Thinks that there is no particular period at which they spawn. It is impossible to make a close

Decrease. season for lobsters. Never saw a lobster taken much under 7 or 8 inches. A sale fish is 11 inches. Under that length they go two for one. It would not CEAY-PISH There are very few cray-fish on this coast.

be a good thing to put back all the berried lobsters. They are the best lobstere. JOHN HOCKADAY. Has been fishing 44 or 45 years. Fishes on the same CRABS. ground as preceding witness. Soile his crabs to the Southampton and Hamble The smacks come once a fortnight in the season. Catches most crabs after a swell. The price of crabs has risen from 12s. to 15s. a dozen for hes. Mr. Scovell gives 3s. a dozen for shes. The she crabs run smaller than

the he crabe, and the claws are smaller. There is not so much fish in the shes as the hec. Catches she crabs chiefly in July and August. Some crabs are sold to the French. The French smacks come from Dieppe. He doesn't himself sell to the French unless his store pots are full and he has no room for more. The French give the same price as Mr. Scovell for he crabs, perhaps a trifle more for she grabs. For the last 30 years two vessels have been coming twice a fortnight. An 8-inch crab is a sale crab. Doesn't think he sells any

crabs under 5 inches. The crabs are all cent away alive LOBSTERS. Som very little difference in the lobsters. Has caught lobstere 10 lbs. in weight, but very rarely. A 11-inch lobster is a sale lobster, below this they go No decrease. two for one. They never catch a lobster in a pot under 7 inches. Smaller lobsters so through the note which have a space of 12 inches between the ribs. Lobsters are never plugged. Thinks the trawiers do a great deal of harm to the grab fishery. The crabs go on to the sand, and the trawiere catch them.

Tropolers. Finds berried lobsters all through the year, but has no personal experience of this. It wouldn't pay to have to put back berried lobsters. Marrin Ross. A fisherms of Newton Ferrers. Was fishing off the Eddy-stone last summer, and for the two preceding years. Fine lobsters are caught on a portion of this ground. There were two boats from Yealm and three for Cawand, fishing three last season. The lobsters were less plentiful last summer than three years previously. The old ground failed, but found a new piece of ground where they had good fishing. Thinks the old ground was exhausted. There had been three or four other boats besides himself. It is a

very small patch of rocks, not above an acre. It was fished with pots. Is in favour of a close season both for crabs and lobsters. It should commence on the 1st September and end on the 31st January. There is no fishing in these months, but it would stop the trawlers. Thinks the trawlers do great damage by destroying female crabs. The traviers come close to the Eddystone ground. Is in favour of returning all be crabs below 5 inches, and all she orabs under 4 inches. It wouldn't do to make one gauge for both. Is in favour CRABS of returning all small lobsters under, say, 7 inches. A gauge of 8 inches would Games. he a sacrifice. An 8-inch lobster (seeing a gauge) is very small. (By Mr. Buckland.) The patch of ground off the Eddystone was on the

south-west side. Hie bost would put 30 pots on this acre of ground, and there were four other boate. There would be upwards of 100 pots on this one acre. The Cawcand men found the ground first and found very large lobsters there-Lobsters are always large on a new ground. The Eddystone lobsters are about 3 or 33 the. Has seen lobsters without claws, probably from fighting. Lobsters are not plugged, and crabs are usually stabled before they are boiled.

Ballien.

THOMAS LEGISARIO. Has been fishing for 30 and 40 years on the same ground as Mr. Forster. Thinks he catches about the same number of orelas No decreases as he used to, and that they are not smaller. Agrees with Mr. Forster that all crais under 6 inches, all berried crais, and all soft-crais should be thrown back.

Thinks all lobsters under 8 inches should be thrown back. Thinks the Soft.

Thinks all lobsters under 8 metes about 5e thrown both. Thinks the waveless are injurious, but is afraid of medding with them, as they might out anysy the pots. The pots with the lines and owks cost should 6e each. Journ ALIS. Fishes shough the shour from the Youlm to Mothesconds. There are just the same number of erable as there used to be, and to be some size. The fiding account of the property of the propert Very seldom catches she crabs till June and July. Agrees that lobsters under LOBSTERS. S inches and crahs under 5 inches should be returned to the sta. Thinks that there are as many fish caught as there were 30 years ago, but that the take is

divided among more boats HENRY KINGGUND. For two summers took the crahs for Mr. Scovell. Confirms the evidence of previous witnesses. Saw no berried crabs in the fishing season, but believes berried lobsters may be taken all through the Berriedyear. Does not think legislation for crabs or for lobsters is necessary.

Rolle Arms Hotel, Budleigh Salterton, Thursday, 7th December 1876.

PRESENT:

FRANK BUCKLAND and SPENCER WALFOLE, Esquires.

Reverend George Dace Anams (esessined by Mr. Walpole). Has been 28 years view of Budleigh Salterton. The population of the village is about ORABS. 25 years view of Budleigh Shierton. The population of the village is about 1,050. There are about 30 interment; there is a considerable fishery for lobsters and cashs. The principal fishery is 10 miles out, off the Kerters; lot three is also a fishery along shore. Thinks the fishery is about staticoard, might be made more productive. Thinks there ought the out staticoard, seaton, and that the shall fish ought not to be that are most and. Will leave the fisher-will be about the shall fish ought not to be that are most and. uses and mark into soften two to be taken and wasten. Will take the fishermen to say when the close reason should be. They are in the habit of bringing andere very mail cache and industries. They bring eather crabs 5 inches excess. Thinks no cuts ought to be taken under 5 inches. Hundreds of small General Colottes are the habit in the shrimp nets, and these small lobsters ought to be put back. Thinks the institution of a close season, and the prohibition of

be put back. Thinks the natitution of a close season, and the pronuntion of the capture of very small fish would do a great died of good to the fisheries. Gioona Barri (annised by Mr. Walpold, Is a fisherman. Has considered by Mr. Walpold, Is a fisherman. Has considered the fisheries for cross and lobestown all his large many fine of the fisheries for cross and lobestown all his large many fine of the fisheries for cross and considered all his large periodic Thinks the cross are decreasing in number. Thinks the cross periodic Decreases, the consideration of the consider half the number of pots. The gross take of all the hoats is nearly as large now as ever. There are six boats fishing for orahs and lobsters at the Exeters : each boat carries 40 pots. There were four boats 40 years ago, and they used to carry about 30 pots each. There is 5 or 6 miles of ground at the Exeters. From the Exeters they never get crabs smaller than 5 inches, they run up to S or 10 lbs. The shell fish are sent to Exeter, being sold to dealers in the village in the first instance. Is in favour of a gauge, and thinks a 5-inch gauge Gauge. for crabs, and as 8-inch gauge for lobsters would do. Thinks the trawlers do Lous serious injury to the crab fathery, by entching the female crabs, especially in the fall. The females have the rocks in the spawning season. Has seen many Gases. a dosen of the female crubs brought in at Brixham. The trawlers work on Trawlers, sandy ground. The trawlers should, in his opinion, be prevented from

bringing in embs. They destroy also a great quantity of small fish. RICHARD PRATT (examined by Mr. Walpole). Has been a fisherman for 20 years, and fishing all the time for erab and lobsters. Fishes off the Exeters and along shore. Thinks there are 8 miles of off ground, a mile or more broad, i.e., sestered ground, with patches of sand between the rocks. The in-shore

LOBSTERS.

CRABS.

ground extends all the way to Sidmonth. The Extete ground is fained by nix boals from Budleigh Salterton. But boats also come from Teignasouth to Emmonth. They eavy about 40 pois a boat. There are two boats from Emmonth, one from Teignanouth. Nine or ten boats altoyalher. The faishing season bere always begins in February and crist as the end of Celeber. Off

none amon here always being in a Poincarry and ends at the end of Orobler. Of the Exercise rule pelays at the and of March to be legislating of Ard, and control of the Ard to t

The rather. The rather than, I The hand are in the tests concluded, but of well could allow the preturn of the rather than 1 to be seen as the second of the rather than 1 to the princip clear. In the incidence of the rather than 1 to the princip clear than 1 to the rather than 1 to the rather than 1 to the rather than 2 to the rather than 2

making a doss season from 1st October to the 1sth Normany. Thinks also in the control of all bernind enhanced in the control of all bernind enhanced in the control of the

refuge, when they each never hoteres. It is frour of the same ideas seam for the control of the same ideas seam for color. Thicks it would be a very but thing for the flatterests believes as for color. Thicks it would be a very but thing for the flatterests the color of the col

profes in the sund in the fall of the year. Goes ion money for the coult that
Against and September has prosent in the jet has at soy other time. They
have seen in them them. They care their bereis in Doesnher. The orde
have seen in them them. They care their bereis in Doesnher. The orde
Against Sixle, growt, and formation are used for the hair. Golds as more
broken up for both hare. The price has treat during the last U or if years.
PARAYIN.
They are the made to the price of the p

ones. Finds many growing new claws.

years. Uses about 40 pots. The pots are set about 100 yards apart. The pots are set on the rocks in 14 or 15 fathoms water. Was trawling in a Brixham Transfers. trawler for three years and a half—30 years ago. The trawl beam is 22 feet long and a powerds. Heard Mr. Pratr's cridence about the trawlers. When he was trawling here he caught many crabs in the summer season from May to October. They mostly had red come in them. Was not trawling in the winter months. Thinks the trawlers might be made to put back all berried winter months. Thinks the trawlers might be made to put back all berried crabs. It would not interfere with their business. Agrees with Mr. Pratt that all herried croks, all crabs under 5 inches, and all lobsters under S inches should be put back.

N.B.—The other fishermen at the meeting expressed concurrence in the evidence given by Mr. Prett.

King and Queen Inn, Hamble, Friday, 8th December 1876. PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

OTHERS. ROBERT SCOVELL. Has been a fish merchant at Hamble for 40 years. The business has been in his family for over a century. The business first began by his ancestors taking hoops for pilchard barrels from the New Forest to Cornwall his ancestors taking hoops for pitchard pareistrom may kew Forces to Cornwall, and bringing book a cargo of cards. Is in the habit of obtaining crabs and lobsters from the Start to the Seilly Islands, including Sennen. Does not send to Scotland. Obtains them in Irland from Cape Clear to Bantry. The shell-fish are sent all over the kingdom. Used formerly to supply London; but since the inclusion of railways sends them all over the kingdom, down even to Ediphumb. Has not found any falling off in the crabs either in size or in No decreased in the crabs of the crabbs of the crabs of th Bay, and other places. The average size is from 5 to 7 lbs. A sale crab or measured crab is 8 inches across the back. Below this size they go two for one. A crab from 5 to 6 inches is a small crab. The crabs are not smaller one. A cruo from 5 to 5 medes is a sense crao. The craos are not smaller in size than they used to be. Is in favour of returning all crabs under 6 inches. At Portland, however, and Bognor not one crab in four would meamences. As roreand, newere, an Dogosa was constructed in the whole again again for Gernwall which would not apply to Portland and Bognar. The crabs in some places are larger than others. The largest crubs in Europe are in Start Bey. Along the north-east coats of England the crabs run small. The small crabs on the north-cast coast will never grow into big ones. Would, as a fish merchant, more-use coast will never prove into tog come. The country, as a list intervalent, profer a 6-inch gange, and this should apply to thes as well as is list. A 5-inch Gayer gauge, however, would do, and a 6-inch gauge would not do for Portland and Bogine. From Fehrunty to April the she crabs ren very small, but there are very few she crabs killed in those months. The female crabs come in in June, very tew one crass satisfy in mose monuse. Any account season was the following and go on till Spettember. They begin to fall off in the latter part of October. Has a few females in December, but they thea fall off. Finds the coral in the she erabs in November and December, but they thea fall off. Finds the corol in the she crabs in November and December, but they then the the crabs in January. Thinks the Spentasey, off into deep water to spawn. The betried erabs are in January. Thinks the Spentasey. berries batch out in January, but has not seen a berried she crab for a year. berries hatch out in January, but has not seen a berried she crab for a year. Thinks that all berried crabs should be returned to the water. Gods more for his embs from April to October. Thinks the crabs are in best condition in February and March. Nere purcleases afor class, but the land crabs ever their shells with him. Calls hight erabs white herried crabs, and these soft crabs should be all returned to the water. There is no an allow of soft crabs should be all returned to the water. There is no all allow of soft crabs should be all returned to the water. There is no all allow of soft crabs. crahs. Boils the crabs here. Puts them into cold water on a very steady crans. Issue the crash next. Just stem into cold water on a very steady fife. Only boils them for his own use. They are sent away alive. The crash are deal before the water is lukewarm. Putting crubs into cold water is the Indian most mertful way of killing them; they are drowned. Knows that the trackers interfere with the crabbers, but they do not do so very much. The Brixham trawlers catch a great many crabs. Is in favour of returning all herricit

seven. The smecks are from 45 to 80 tone. The emacks are all welled smacks, and collect the fish from the fishermen. Imagines from this fact that the trade is not falling off. Is in favour of returning the small lobsters to the sea. An S-inch lobster is too small to sell. Gets berried lobsters every month of the year. Gets most in May and June, but there is very little

difference. Has seen berried hens as small as 9 inches. Thinke that the hereind hens should not be resurned to the water, but sent to market. They are more valuable than other lobsters, especially during the salmon and turbot season, and when berried are in the very best condition for food. The berries are used for sauce. If a law was made enforcing the return of herried hens it would not be obeyed. The fishermen would stelp off the berries, and after 12 hours on expert could not sell whether the berries had been removed. Is not in favour of a close season for lobsters. The greatest demand for lobsters is during the London season. Very few lobsters are caught in the winter sesson. A lobster in a welled smack will keep for a fortnight or a month.

But an average passage is a week or ten days, except in very hot colm weather In hot, calm weather they hang the lobsters overboard in nets. A welled

CRARS. Goloan.

crabs; all light crabs; and and all undersized crabs. Can give no idea of the crans; an inguiverse; and and a understance constitution of the last 30 years, net of growth in a crub. The price of crabe has tisses for the last 30 years. The price of crabs 30 years ago was 14s. to 16s. a dozen. The price now is about double, 25s. a dozen. The Start crabs are the dearest, as they are superior fish. The increase of price has been due to the increased demand.

superior fish. The increase of price has been due to the increased demand. The railways have created a competition among other places; while before the railways the fish were sent by van only to London. Does not believe that

there are fewer crabs in the sea than there were, but that in some places they are not so large. Is, therefore, in favour of preserving the small crabs. The orabe at Scilly are small, black, light, and not fit to take. You can eatth good crabs where you get good lobsters and cray-fish. The good crabs are off

the sand; the good lobsters are off the rocks. Cannot my what is the food of crabs, but believes they will eat shell fish. Lobsters will eat oysters. Has LOBSTERS proved this. The principal supply of lobsters is from France and Ireland, as well as from the Start to the Soilly Islands. To the west of Mount's Bay there are large

Supply of. quantities of lobsters. The lobsters have not fallen off in size and number. The size differs according to the ground. Gets large lobsters from Brest, and thinks the Brest lobsters very good. A tale lobster is 11 inches. There are now 22 smacks at Hamble, and there used, 40 years ago, to be only six or

French

Frod of

Berriod.

Store pots.

Wood of.

CRAY-PISIC. Value of.

In 1876 to 31st October,

produced in 1875: -

Lobsters Crabs and cray-fish Lobetors Since the 31st October, 1876, Lobsters

Crabs and crav-fish -

Crahs and env-fish -All crabs and crayfish come from the English coast. from France and Ireland.

6.054 1.239

86.585 The lobsters chiefly

mack in one voyage will carry 18,000 to 20,000 small lobsters. But an average voyage is 3,000 to 4,000. Has reservoirs for lobsters. They contain about a equarter of an acre of water, seven feet deep. There are sometimes 20,000 or 30,000 lobsters in these pits. They are not fed. They are sent away continually. A lobster is never fed, but never kept for any time in a reservoir. Some years ago he did feed them, but then the lobsters died. Thinks that lobsters

would do very well in a pend for some months, if the soil suited them, and they had plenty of fresh sea water. If they die at all, they die in the first week in the pit. Thinks they live on any animalculæ that may come in. Once

weighed a lobster when put into the pit, and found that it increased in weight in the two months it was in the pit. Plugging lobsters is a recent practice, and not practised. Lobsters and crabs should both be nicked. Sees that it was stated at Fishmongers' Hall that crav-fish are extinct.

- 103 499 98,545

On reconsideration desires to say that a 6-inch gauge will not do for she erahs. With that gauge would have to throw away 80 per cent. Would prefer two gauges, one for males and one for female crabs. There should be a 6-inch gauge for males, and a 5-inch gauge for females.

The crab fishery commences in January, if fine, or in February. When he Season for.
said that crabs were in the best condition in February he meant male crabs. Many of the female crahs are then small and the large female crahs are light. The large female crabs in February have recently east their shell. The female

crab improves in condition as the year advances, and is in good condition from July to October when they are fullest. The red coral is not in the female crab Spanning. before October. The coral is in the shell from October to January. They

LOESTERS.

CRABS.

I

then go away to deposit their spawn and are seldem soon.

Captain John Harnden (examined by Mr. Welpole). Has been 45 years engaged in the erab and lobster trade. Has cight sanneks at the present time. Trade in. engaged in the curb and lobster trade. Has dight numbes at the present time. Trade in-His search go to Norwey, France, Ireland, and the Espiths costs. Has a large dapple lover and at Great Grindry. His very consider a large state of the contract of the

Norwegian trade. Is aware that the Norwegian Legislature had a proposal hefore it to prohibit the capture of all lobstess under 3 inches, and thinks this ought to have been adopted. A Norwegian fisherman, speaking for others, told him that 8 inches ought to be the gauge. If an 8-inch gauge would do for this country, it would not injure the Norwegian fisheries ultimately. A hen lobster would breed twice before she arrived at the 8-inch gauge. An S-inch gauge would injure the fishermen for a little time, but they would henefit hereafter. Has four or five smacks trading to France. The French French fish are larger fish, and the S-inch gauge will do no harm there. Would like in this country an 11-inch gauge, but we must take the Norwegian gauge for

an una country an 14-men gauge, but we must taxe me Newregam gauge tor the highest material. Thinks and high in accountry for the Norweghan fishering confidence of the Norweghan fishering the new part of the Norweghan fishering confidence in any rough of the year. Thinks that lobstens are in herry all the Nervick year round, but that they hatch out design this assumer. Has store clean to the state of the Norweghan fishering the Norweg loheters in pets for six years; both hens and cocks. Can't say what their growth has been. In France they say a loheter takes 10 years to come to his growth, i.e., his extreme growth. Ponds ought to be encouraged, if properly croadusted, and not put down. Has heard Mr. Kenneth Smith's (of Stornowsy) evidence,* relative to the inadvisability of keeping lobsters in ponds. Totally

differs from it. Gets his crabs from the Start to the Land's End ; is in favour of a 5-inch

placed with the 8-inch gauge. The Norregion boater normalists are in Norregion forward thing same, The Norregion boater normalists are in Norregion. The Property of the Norregion of Normaly are stored in clash. The store potential and another than the Norregion before it not interfering with in the Norregion before it is not interfering with in the Norregion before it is not interfering with in the Norregion before it is not interfering with in the Norregion flower in Norregion (and the Norregion flower) (an Large quantities of Norwegian lobsters go to Belgium.

* See Evidence, Scothard, page 48,

CRARS

John Scovell, fish merebant at Hamble. Has taken an active part in the trade for 11 years. A member of the firm of Messrx. Warner and Scovell, and a bother of Mr. Robert Scovell. Messrx. Warner and Scovell have six smacks, trading from Start Bay to Scilly Islands, Padestow, and Lundy Island, Iraland, and France. His emaske go from Baltimore (Cape Citags) to Connemara. Doesn't think that the crabe are getting less numerous anywhere. Contracts to take the whole eatch of the fishermen. Used to trade with the West Coast of Sociand, but never traded with the East Coast of Sociand.

and England. Is in favour of a 6-inch gange for he crabe, and a 5-inch gauge for she crabe. All herried crabs should be put hack. All the soft light crabs and black crabs should be put back. The black crube take their colour from the ground. Is also in favour of an S-inoh gauge for lobsters. Berried lobsters must be sent to market. The lobsters are in the country sold by weight. Has had LOESTERS. .

Course. Store pots. sent to market. The blosters are in the country not by weight. Has had pits, and has boxes for storing bothers. Thinks that blosters would be more likely to deteriorate in Jane and July then at any other time in the pits. Tay will, if properly standed to, do as well in the pits as anywhere edse. It would be a great injury to the London trade if no pits were allowed. Thoussaids were lost before the pits were introduced. During the last two years has → bezadorno In 1875. Cmbs 76,470

In 1876.

Thereto in

Crahs		-		-	82,000		
Crav-fish	-		-		9,500		
Lobsters	-	-	-	-	27,500		
ast about 10	per cer	t. of the	crabs :	from Co	gnwall go	by zail.	Mr
her merchani	in the	trade. l	has also	five an	nacks. Th	s produ	108 O

- -

. 27,460

CRARS. Toude in.

Messrs. Scovell, and Warner and Scovell 200,000 crabs Capt. Harnden Mr. Locke 50,000 60,000 33 Railway 50,000 to 100,000 ,,

Local trade -

Thinks #

Locke, anot

90,000 ,, or about half a million of crabs for Cornwall and Devonshire.

The Assembly Rooms, Bognor, Saturday, 9th December 1876.

Cray-fish

obsters

PRESENT. FRANK BUCKLAND and SPENCER WALFOLK, Ecquires,

LOBSTERS.

Reverend ALPRED CONDER, Rector of Middleton. Has been requested by the fishermen to set an épitome of evidence before the Commissioners. The fishermen are unanimously of opinion that some legislation is necessary; that lobeters have hitherto heen caught too small; that lobeters have been taken 14 to 20 to the pound. They think this state of things wrong; but, while one man does it, all will take the small lobsters, called chicken lobsters. There is no natural cause, so far as Bognor and Selses are concerned, for the destruction of the fish; but there is a great diminution. There is a diversity of opinion among the Bogner and Selses men as to the size of the lobster. The Bognor men propose that no lobster should be taken under a quarter pound weight. The fishery at Bognor is chiefly connected with the prawn trade, and

the small lobsters are caught in the prawn pots. In the Selsea fishery ports larger pots are used, with ribs an inch apart. The mouth of the pots is 63

inches; the mouth of the prawn pots is 41 inches. The Selsea men also propose that no lobster should be taken under a quarter of a pound. The fishermen say

Small. Derroase. PRAWNS. Pote.

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that they eateh the lobsters both in deep and shallow water. The large lobsters LOBSTERS, are mainly cought in the early spring and in the late autumn. The Bognor Estriction of inshermen my they catch berried lobsters all the year round. The Selsea men 2 control to the price of the price of the spring the spr close season is necessary, as they practically do not commence fishing till the early spring. The Selsea men recommend a close season from the middle of Giosetius. November to the middle of February. The best fish are caught in water from

10 to 14 fathoms deep. The Bognor men fish in shallow water. JOHN RICHARDS, a fisherman of Bornor. Has been fishing for 30 years

both inshore and doep water. Would not like a close season from November to February, must fish in November. The close stuson ought not to begin till December, and might go on till beginning of February. Has been extelling

lobsters and crabs for 30 years. Uses both the small pots and large pots.

(Examined by Mr. Buckland.) For the first 20 years used nothing but the large pots. During the last 10 years used small pots as well. The pots are Pots.

the same as they used to lie. (By Mr. Welsole.) Carries about 30 big pots off shore, and 200 little pots for the inshore lishing. The pots go out at the commencement of the season, and remain out throughout it. The most valuable fishery at Bogner is the prism fishery. It is a good fare more variance marcy as Doggar's use.

There would be 25 to 30 lobsters in the 20 lbs. Each lobster would average about two thirds of a pound. Considerably more than one half would be over 8 incless in length. Thinks that the little lobsters in time would grow into big ones. Could not agree to put back lobsters over 7 inches. Could only consent to put back all over a quarter of a pound. Tonks this an exceptional place for breeding lobsters; it is a great nursery for blosters. Thinks Breeding, the fittle lobster will grow into a hig one; but that he will not stay at Bognor. Never caught a lobster over 8 lbs., and not many over 4 lbs. When he com-

mences, about April, extches mostly berried hens. There are most berried hens in October. Sees little lobsters in the spring. (By Mr. Backland.) Fishes along the coast from Littlehampton to Selsea,

and 12 miles out to sea. Fishes up to the slore where it is dry at low water. There are all sorts of hottoms between this and the Owers light, 12 miles out Aurer are not seen on protecting are deed and one of weet sight, 12 interested to sea. There is a large ridge of rocks at the Owers light, covered with weeds. Uses place for bait, if he can get it. Breaks up water; erals for bait for prawns. There are showt the same number of beats move at Bognor that there were when he was young, from 16 to 20 boats. There are not so many hoats go outside from Bognor as there used to he; but there are more on the inshore ground. Trawlers cannot come here as the bottom is too rocky. Those ground. Trawiers cannot come here as the bottom is too rocky. Those who go pravious exery a few lockster ports. Crabs are easily in the person pots, and they injure the pots by pinching them, and get out of them. This is not a emb ground. There are a lot of small eralls here. Very few are sent to market. Takes no interest in the erab fishery. Brighton is the principal market for shelf-lish. They are most valuable in Jufil because they are search. The price has not altered much thiring the last three or four years; but is better than it was 20 years ago. The railway, which was made 11 years ago, better than it was 20 years ago. The railway, when was mass a has done the fishermen good. Cannot say whether the lobaters have decreased LOBSY or not. The seasons vary. The lobstors fish heat in July, and at night, and in fine weather. Thick water is good for crabs, fine water for lobsters. Wouldn't like a law compelling the return of berried lobsters. The Brighton fishmongers

will buy a parcel of lobsters weighing 20 lbs. for the sake of two or three berried Berries. hens in it. Thinks nothing should be done except to enforce the return of all lobsters under a 2 lb. A 3 lb. lobster will measure 62 inches. If an 8-inch gange were unde, the Bogner fishermen could not earn a livelihood. Some days they would scarcely bring anything home. The principal market is Brighton. The chicken lobsters are in great demand in Goodwood week. About the end of May they catch a great many little lobsters. Perhaps 10 or Amount me emo or says tincy exten a green many time sousself. Verlands 10 ser. I under 6 ji inches in a day, from 10 ser with the said time the said time to the said time to the said to the said time to the said the looks ten to a rabbit boles, in which to believes live. Those banks extend for 20 miles from Seless to Shorcham in pathess. The grass werel grows on mud banks. These mud banks form a freeding ground. The French coact is 50 miles off. (By Mr. Rejacche). Will be said saided with the look a market in Sussex for all

Gauss. PRAWNS. small lobsters under 62 inches in length. No lobsters to be sold in Sussex under 6h inches. John Mills. Agrees with Mr. Richards' svidence. There are 25 hoats

engaged in the fishery here. Each boat carries 200 prawn pots, and about 30 lobster pots. The prawn pots extend about 3 miles along the coast, and 3 miles out, 9 or 10 square miles. They put back the very little lobsters of their own accord. Cannot tell the age of these little lobsters. Agrees with Mr. Richards'

evidence. The crab fishery is not important here.

LORSTERS. WILLIAM LEGGE. A fisherman of Selsea. Has been so for 43 years. Is in favour of a close season from the middle of November to the middle of February. The Selses men have been in the habit of throwing away all female Close time.

GRABS.

erabs over 2 lbs. in weight. There are a great many female crabs over 2 lbs. in weight. The fishery at Selsea extends in a triangle of which the base is formed by the shore from Bognor to Selsea. The sides are S and 12 miles long

Sesson for.

respectively. Fishes in 10 to 14 fathoms water. Brighton is the chief market. respectively. Falses in 10 to 14 fatheness water. Empirion is use once measure. The fishermen as Selace have wherea then the high of parting back to the feet of the first parting the selaction of the selaction of the feet of the feet

Bolk. Conge. Selsea crahs run from 3 inches to 8 or 9 lbs. The average is 2 to 4 lbs. School evaluation from 3 inches to 3 or 9 lbs. The average is 2 to 4 lbs. The School School Evaluation oil asy that all evaluations a quarter of a lb. should be reformed. This is about 42 inches. Many days the men would go home without wages if a 44-inch orth were pair lack. There are about 20 boots at School dependent on the orab fashery. A 5-inch gauge would be ruinous to the faituremen. The small erab are so that Brighton as shout 4.6 a pound. Catches a few herried crahs. They are always returned. Catches them now and then in the summer. Would not catch a berried crab at this time (December). Is certain the crabs hatch out in the summer. The 20 boats are solely dependent on crabbing, except in the winter, when they dredge for oysters. In the

Bertied.

Outer rocks there are a bigger see of crabs, but the 20 houts cannot go there, because they are manned by older men. The younger men only can go to the Outer rocks. PRAWNS. Prawns are not falling off at Selsea. April is the best season for them, and sometimes September

GRABS. Gause.

The crabs have diminished in number. There are one third less than there used to be. There are more heats than there used to be, but there are fewer crabs in the sea. Doubts whether the crabs are quite as large as they used to he. Thinks the decrease is due to killing the female crabs. Thinks that it would be a good thing to return all the small crabs under a quarter of a pound

School-room, Cromer, Thursday, 1st February 1877. PERSENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

LORSTERS. Games.

N.B.—At a meeting attended by a large number of gentlemen and fishermen interested in the crab and lobster fisheries of Norfolk, a resolution was unanimously passed, recommending that the gauge for lobsters enacted by the Crah and Lobster Fisheries (Norfolk) Act should be renealed, and that the gauge for lobsters should in future be 8 inches, measured from the tip of the beak to the end of the tail.

Council Chamber, Birmingham, Friday, 16th February 1877.

PRESENT:

FRANK BUCKLAND and SPENCER WALPOLE, Esquires.

WILLIAM SMITH NOOTT. Has been a fishalesman at Birmingham for 15 CRAII years. Deals in all kinds of fish. Sells emba and lobsters. The supply of sengels of the dependent on the season. Some days there are as buddered larrels, come days only 10 to 20 barrels. There are six to ten docum ents in a barrel, running from to 10 lipsches across the back. The evids come from Anstruder. running from 4 to 10 inches screax the back. The erabs come from Anstruker, Si, Monacce, Proton Pana, Dunlar, Coldingham, Cockburnapath, Ryemouth, Burmouth, Berrsiek, Holy Island, Bachnell, Craster, Boulmer, Cullercosts; a few from Fley, Scarborough, and Robin Hood's Bay; and from Cornwall, Guerney, and Jersey. The largest crabs are from Guernasy and Jersey. The targest crabs are from Guernasy and Jersey. The targest crabs are from Guernasy and Jersey. The targest crabs are from Guernasy and Jersey. They run 12 to 14 or 16 inches across the back. A few crahs come from the lale of Man, and Ireland.

A few lobsters also come from the places mentioned. The quantity of crabs Decreased size sent to the market has not been less, but for the last six or seven years the crabs have decreased in size. The sisbernen during the last six or seven years, have been senting shall-fluid direct to the market on their own account,

the merchants declining to take the little crabs and the white-footed crabs. The small crabs are bought two for one, and sometimes three for one. Before he came to Birmingham he had large dealings in crubs in the southeast of Scotland, which was his native country.

Is in favour of a gauge for crabs. Produces a crah 4g inches in length, and Gauge. thinks no crab much less than this should be sold. Suggests a gauge of 41 inches, to be appliesble to England and Scotland. But the responsibility must rest upon the lishermen and not upon the salesmen. The craks are boiled here

Knows a "light" crab. Produces some. Defines a light crab by the light- Soft.
ness of the shell. They are called here white crabs. The dealers get many white crabs sometimes, especially between September and January. They are erabs which have east their shell in the summer, and the new shell is are crans warm nave cast their sums in the sommers sold the rewards agreedually investeding in the winter. The dealers sell the claws of these white crabs. It is a great pity that these white crabs are invested to market as all; it is a great loss to the country. They are of no use at all. They do not pay for their carries. Has seen white crabs at Dunhay pinched, their shells broken, and thrown overheard. Knows a softerab, which is like an egg without a shell. It does not take more than a formight or three weeks for a light crab to recover its condition. After a storm there are always a great many white crubs, but they fill up in a week, and then none are caught. Knows very little about trawling, and does not know whether the trawlers pick up many light crabs.

The crabs here are holled. It is the habit here to kill them in lukewarm Bostong. water. It does not answer to stab them. Does not know what temperature they will die at. At this time of year there is a very small supply of lobsters at Birmingham. LOBSTERS.

The lobsters come from Stormowy, Jenhan swypry, west and morth consts of Stochand, and Norway. The lobsters are more plentful in bot weather than in cold swather. There are many lobsters from Norway in bot weather. Does no swather. When from Sussex. The lobsters here are measured from the tip of the nose to the end of the harrel. Would make it illegal to take any lobster under 4 inches Gone in the berrel. The berried hens should also be returned to the sea. The berried Berried, heas are valuable in the market. Thinks it would be possible to enforce a law compelling the return of berried hens. The herries angult be reasoved, but an

experienced fisherman would know that they had been removed. Does not think a close season would be advantageous. Gets no crayfish. Does not know why lobsters turn red when boiled.

(Exemined by Mr. Walpole.) Recommends 41-inch gauge for crabs. A

CR S-lach gauge would be too large. The 5-lach gauge would not be a Greyor strious injury to the Birmingham market. It would perhaps be Genor. hetter for the salesman to have a 5-inch gauge. The poorer consumers now buy a 2d, or 3d crab, and they would be deprived of these. On reconsideration the 5-inch gauge is a very fair size. Does not wish to throw the

CRABS.

CRARS.

responsibility of the law on the salesuman, who is not primarily liable. The fisherman has the opportunity of returning the crab to the water. Is in favour of improtors on the coast, to stop the capture of these crabs. The market inspector might write to the inspector on the shore, and ask him to search barrels. An unclean salmon is analogous to a white crab. It is illegal for fishermen to take and for salesmen to sell unclean salmon. Thinks there is nothing unjust in the law. The difference between crabs and salmon is that the crabs are packed in a barrel, and that it is impossible to see their size. It is possible to inspect a box of salmon, but it is impossible to inspect a barrel of crabs. Adheres to his opinion that an inspector should be appointed on the coasts to enforce the law, and thinks that such an inspector should be paid by the Government.

CBABS. Seft.

(Examined by Mr. Buckland.) No erabs come here from Norfolk, and very few from Yorkshire. Some from Northumberland. There would be no difficulty in working the law on the coast. An inspector would get in-formation that small crabs were being sold on the coast, and could go down and stop it. The fishermen also would possibly excry out the law among themselves. Robert Edward Dexter (examined by Mr. Wolpole). A commission agent in Birmingham, established 27 years in this town. All kinds of fish pees through his hands. His crabs come from the same places as Mr. Scott's. Agrees with Mr. Scots that the gauge for crabs should be no less than 5 inches. Agrees also that no light crabs should be sold.

No decrease.

Birmingham is a market of distribution, and supplies places 100 and 190 iles off. Sends bloaters down to the sea coast. The supply of crabs is not falling off, and the price has not on an average risen materially. Sometimes gets a good supply of lobsters in the winter time. The winter LORSTERS. lobsters come from Scotland and Ireland. The Scotch lobsters are as good as any. The Norway lobster is good, but not so large. The lobsters come from

No decrease.

all parts of Scotland, and are on on average much the same as formerly. Does not agree with Mr. Scott that no lobster should be sold under 4 inches in the barrel. The lobsters here are all sold by weight. It would be an injury to the trade if all lobsters under S inches were prohibited, as many Norsey lobsters are below this size. Is not sequainted with Norway. Was not aware that the Norwegians were contemplating prohibiting the capture of lobsters under 8 inches. If the Norwegians agreed to the 8-inch gauge, an 8-inch gauge for England would be beneficial to the public. Can make Is a pound with

Berried.

large lobsters, and only 6d. a pound with small lobsters. Knows a berried hen or spawn lobster. Thinks they ought not to be taken. The spawn is generally given away. A spawn lobster ought to be left in the sea at any time of the year. Could detect the removal of the spawn if it were removed; but could not tell whether the spawn were removed artificially or shot naturally. The prohibition of the sale of spawn lobsters would stop the practice to a great extent. Lobsters are brought from Norway in boxes. Does not know whether a lobster in transit might not extrude her berries from inside

Thinks that the law ought to be enforced on the coasts. Does not think it could be enforced in the markets. Notices should be posted up to warn the fishermen. The Adulteration Act is very similar to this, and is enforced against the retailer. But the general feeling in Birmingham is that the law should he enforced on the coasts. This is the feeling of the Fish Association. This is an association formed by salesmen, who meet together three or four times a year. The Association has discussed this subject, and arrived at this conclusion. They are all anxious to have the law enforced on the coasts. Does not CRARS. think it would involve any very great expense. Thinks that it ought to be illegal either to take or sell any undersized crab. If Parliament make it illegal to take a 5-inch crab, it must be illegal to sell it.

Garrar.

(Excessized by Mr. Buckland.) Thinks all berried crabs should be returned. Knows a hen from a cock crah by the tail. Often receives crabs with berries under the apron. Thinks berried crabs are unwholesome, and that they ought not to be sold. Thinks if the law were well posted up in every willage, the fisherman would obey it, without the intervention of an inspector, and that the fishermen would overy out the law against themselves. THOMAS GLASSHY (exemined by Mr. Walpole). A fishdealer and poulterer in

Birmingham. Wishes to point out that the salesmen are not retailers, and Printed image digitised by the University of Southampton Library Digitisation Unit

that they do a longe business, and that they only have an hour or two hours to Enforcement do it in the morning. It is absolutely impossible to comine corry single filled to the late the morning. It is absolutely impossible to comine covery single filled to the late that the most time, or they would lose the modet, and the ends would be info to their hands, and possible. Thinks to much streambe much loss like or made the single possible that the most included the most of the contract of th

and that an action would I such a law on the trader.

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lottered, provided that no salaronas should be find for saining a puckage of further and for the further and further a

first seller, and not on the subsequent salesman.

WILLIAM SMITH SCOTT (results). It would be perfectly impossible to carry out the law without inspectors on the coast. Posting notices would not

have the effect of inducing the fishermen to carry out the law. The law could not be carried out without an inspector.

A close and Server (common by the Backman). A fide-admenta at Birmingham. Hallenn at this demonstrate for own than 19 years, Schierenhows all belaters wherebox. They come from the same places a fide Booth. They come from the same places a fide Booth. They come from the same places a fide Booth. They come from the same places a fide Booth. They come from the same places are some from the same places and the same places are some from the same places and the same places are some from the same places. The foreout of units places are same from the same places are same from the same places and the same places are same from the same places are s

altogether. There is only one way of enforcing the law, viz., by an inspector Enforcement of the contract of t

on the counts who can examine the evaluate step was complex. WITLIAM [LASALX] consisted by Mr. [194](b). In superimentary of WITLIAM [LASALX] consisted by Mr. [194](b). In superimentary the evaluate step was a rever proper, Evaluate these the gaugest suggested by the contour statement are very proper, Evaluate these transports of the evaluate statement of the control at the statement. He must be statement to the children of the statement of the

It should be the object of the Act to make the law applicable to the fishermen

Enforcement

and the ratality, but not to the wholesaleman unless he broke bulk, or broke open the harrel. This could be most by inserting the word "knowingly." is should be thingal to take, both in the property of the word "knowingly." is should be thingal to take, both in the word be greasery, however, to insert a definition of the word "knowingly." and not to exempt the wholesaleman unless he saw information as to the person from whom he received the

package. The packages sold here do not always come from the flahermen. They are packed sometimes by intermediate packers, who do not necessarily see all they

sell.

There must be some one appointed at the waterside, or the Act would be useless. Cannot say who this person should be. This official would have to be advised who the persons were who broke the law.

Davin Scottistat. (convised by Mr. (Wajoob). A read Rahmanger in Branchgam. Be beat the evidence. Agrees with the agrees and with the Ramagham. Beat the evidence. Agrees with the agrees and with the survival of the same of

three harrels of had crabs.

William Harman (recaller). Puts in following statement of average daily
Electrophers

By apply of fish to Birmingham market:—

to Birmingham market.

2,000 boxes of mackerel, 2 cwt. each.
2,000 barrels of fresh herrings, 1½ cwt. each.
400 boxes of salmon, 2½ cwt. each.

50 to 60 barrels of crahs, 1 cwt. to 1½ cwt. each. 20 barrels and hastests of lobsters, 1 cwt. each. 1,500 packages of plaice, 2 cwt. each. 200 packages of cod, 2 cwt. each.

200 packages of cod, 2 cwt. each.

30 packages of conger cels, 2 cwt. each.

10 to 20 packages of skate, 2 cwt. each.

stal emply of all kinds of fish in the Birmine

The total cupply of all kinds of fish in the Birmingham market varies from 50 to 900 tons per day.

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APPENDICES

REPORT ON THE CRAB AND LOBSTER FISHERIES

OF . . .

SCOTLAND.

APPENDIX No. I. EVIDENCE.

Balmoral Hotel, Edinburgh, Thursday, 5th October 1876.

FRANK BUCKLAND, SPENGER WALPOLE, and ARCHIDALD YOUNG, Esquires.

Jours Anymassov (essentiately \$10^\circ, Bendesied). Its followingers blinkwert.

Like been in business 44 years. Could have decreated very moch. This was the large department of the property moch. The property moch and the property of the p

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the logislation proposed were enforced, it would ultimately have a good effect.

(By Mr. Yong). Has only spoken yets as to Firth of Forth. There is along supply from the Momy Firth and the north-vest cost of Southand. Crains come from overy part of the coast of Sectiond. Is not in favour of the older close time time recommended in the Norfolk Report. See meet crasks in spatial part in June,

Report on Fisheries of Norfolk; Parliamentary Paper, No. 426, 1825.

CRABS.

Barried.

Gauge.

Supply, and requests and voted propose a more time control notes in the control of the control of unriscable erable to 6 inches around the lack. It should be illigable to buy, all, or have in possession for sals, all unsistable erabs.

(Dr. Mr. Padjock). Has been in buriness for 44 years. Purchases from an example of the control of th

ine.

shoolate. There may perhaps be as many crube in the sea, but they are smaller. The decreases, therefore, is not a decrease in number, but a decrease in size. In consequence of increased demand for each it pays fishermen to catch marker raise. When he commonous business in 1823 he could buy a dozen (12) crease for 10d. A dozen eachs would be now 3e. This refers to medium. There is a condimentable domand for rach in June, July, and Anguest. There

Olose time.
Berried,

would a fixed be a good data of indignation mong the each extern at time normal being doubt, but it is necessary to doue them. The determs in each normal being doubt, but it is necessary to doubt them. The determs in each vested, it would estable them to grow up fain large eachs, and so reduce the decess. The does nearest, if intrinsides, must apply to the value of Plankand town of the second of the contract of the contract of the contract of the law. If I were impossible to size the Cornich therice in June, July, and June, July and the contract of the Cornich therice in June, July, and June of the Cornich there is the contract of the contract

Used for boit, Enforcement of law. could not juke the berries clean off. The fisherms might be temped to do not could not juke the berries clean off. The fisherms frequently of a data was read, but only in the sammer. Fashwards frequently of a data was read, but only in the sammer, and the work of the cross are worsh too much more. It is were made linguit to all berried cosh shy would not be hocken more, if it were made linguit to all berried cosh shy would not be hocken more. If the could be could be could be could be compared to the could be coul

Enforcement of land.

up, become there is too little mean in them to make it worth white. (Fig. Mr. Tenny) There are shortly it stations where the White Herring Board have fashery officers, and their might possibly carry out the provisions of an Act of Perlament. They would be the proper persons to do no. The salmont wetebers might also safeti. There would be an officer of the White Herring Board is all the safetions at which the creals are statem. At the time Herring Board with the safeting which the creals are statem. At the time (Fig. 16.7. Residued). The lobbers come from almost all quantiers—oftners, Solvietand, were Highlands, and various stations in the First of Forth. They

Decrease.

Price.
Gauge.

the earlies are taken these officers have not much to do.

Stellester, Vent Highland to the vent cent and seat of the Febru. They keeped the control of the

Spanning.

Berried.

know that they had been removed. Very few lobiters are plugged now, they see mostly field. Thinks that plugging injures the fields. Has seen lobiters are all the plugging the seen that the seen that the seen lober two The only legislation he recommends for blobsets is return of world does no June, July, and Angust, and return of unsireable lobiters. (By Mr. 7000sc) Voxilly prefer to have June, July, and Angust entirely

Plugging. size
as
Th
Close time. Th

(By Mr. Yoseg.) Would prefer to have June, July, and August entirely closed for lobsters and crahs, and that the fishery officers under the White

^{*} See Appendix, No. II., page 65.

Herring Fishery Board should carry out the law. Has never known of a prosecution under 9 Geo. II. c. 33, sec. 4, but approves of the close season

fixed by that Act. The close season at present is systematically violated.

James Johnson, Montrose (exemised by Mr. Young). Has been a lessee of fishings and a fish salesman for 35 years, and has had great experience in crub and lobster fisheries. There are more crabs taken now from Anstruther on the coast of Fifeshire to Gourdon than there used to be, but they are smaller in size. Decreased size. they are closer netted. Attributes the falling off in size to additional demand and increased price. The price is threefold what it was 30 years ago. A fisherman Price, now gets it. 6d, or it. 9d, where he used to get 6d. The eash season is a short season it he would have no cleas season. Thinks a 6-inch gauge would be Gauge. smort sensors; he would nove no close season. Indies a 5-lient gauge would be Gauge. rather large for some parts of the district. Thinks a 5-lient gauge would be a better gauge for fisherman, but the 6-inch gauge would compensate them in the long run. If there is a close season it must be in June, this would be suffi-Close steas. cient. In July and August the crab fishers are away on the herving fishery. There is a difficulty about the gauge because hait is scarce, and small crabs Used for beit. would be used for bait when the fishermen are far from the mussel beds. It certain that in many districts, if there was a gauge, the crabs would be broken

up for hait. He would increase the space between the har of the crab pots Pots. and the mesh of the nets. Would have a larger mesh for the pots. The mesh ought to be about 4 inches from knot to knot. There is a difficulty about the mesh breams a lobster will go through a mesh which would keep a crab. Thinks it would be beneficial to close June Class tiess.

altogether on the coast of Scotland, notwithstanding the case of the Cornish flabories

(By Mr. Walpole.) Proposes as an experiment to close the month of July. It must be made illegal to sell lobsters and crabs in close season, and the sale must be prohibited universally, or the sale must be authorised by a justice of the peace. The Cornish crabs and lobsters might be sold in June on a magistrate's order. The certificate might be given by the coastguard. Thinks the Comish orabs and lobaters might easily be known from the others. There

are only a few old fishermen fishing in July and August. Cannot prevent the capture of berried hens. It would be just as wise to Berried prohibit the capture of full herrings as to prohibit the capture of berried hens. JAMES MUIRHRAD, fishmonger in Queen Street, Edinburgh. (By Mr. Walpole.) 20 years in husiness. Has been extensively engaged in dualing in crabs and lobsters, obtaining them from Dunbar, North Berwick, Crail, Buckhaven, and monsters, obtaining them from Lumans, North Berwick, 1221, Processively, Occhemia, and Northweve. Beye strongth an agent and is also in the whole-sake way. There are more fishermen as these places than there were 50 years *Inste.* ago. There see nearly double the number fishing. The men make a very good trade, the price has interested much. 10 to 50 doors create in a fair and of the processing of the The gross take of all the boats is greater than it was, but the size of the fish is not so good. There are quite as many crahs in the sea as there used to be. There are not half so many large crahs taken as there used to be. This is due to taking unsizeable orals and everything that comes. Should therefore Gauge, recommend a G-inch gauge. This would be a great extent restore the fishing but there should also be a clear season in June, July, and August the principles of the control of the contr cipal spawning months. This must be a close season for sale as well as taking. It must apply to the whole kingdom. There may be places where crahs could only he taken in June, July, and August, but does not think there are many. Unless the close season can be a universal close season, there must be no close

season at all. Lohsters have decreased a great deal in size, not so much in numbers. Pro- LOBSTERS. poses a gauge of 43 inches for the head, equivalent to an 3-inch gauge at the very lowest. These gauges must be universal on seller, huyer, and taker. June, July, and August should also be closed for lobsters. Would not be Close time.

necessary to make any law about berried heas. The herried heas ought to be taken in the other nine months, as the herried hen is the most valuable form of Berried. lobster. The greatest demand for berried hear is in the winter and turbot months. (By Mr. Buckland.) Gets soft crahs in June, July, and August, when they

cast their shells. Thinks a erab of 45 inches is about three years old. (By Mr. Young.) Would enforce these restrictions through the officers of the White Herring Fishery Board.

CRABS

LOBSTERS.

CRABS.

CRARS.

CRARK. Decressed sine Gouor.

Used for bait.

(By Mr. Walpele.) The proper way to enforce the law is through the huyer and celler at the chief markets. The Orkney lobsters keep up their size. JOHN JAMIESON (commond by Mr. Bucklend). Has been a fishmonger for npwards of 40 years. There are more crabs now a great deal than there were 25 years ago, but the size is much smaller. There is double the number of fishermsn, consequent on the increased facilities for market, and they take all sizes. The remedy is to have a gauge. Nothing under 6 inches would do. If the market were stopped the fishermen would obey the gauge. Possibly the small crahs would be broken up for bait where the fishermen could not ohtain mussele. The mussele are more used than erabs. Would have a

Close time. LORSTERS Decrease. Prior.

ongain musicie. The measure are more used than once, would have a close cession in the Firth of Forth in June, July, and August. In these months the fish won't carry say distance because of the best. The lobitors have diminished both in size and quantity. This is attri-butable to over-fishing. They fish for lobitors all through the year. When he first want lo North Berwick 25 years ago, orahs were sold at 5d. a dozen. and small crabs counted two for one. The contract price now is 1s. 6s. to 2s. a dozen. Lobsters used to be 9s. each and are now 1s. 6s. to 2s. Two go for one under 45 inches in head or barrel of lobster. About five years ago refused to take lobsters under 4s inches. The fishermen rebelled and sent the small lobsters to London, and they (the salesmen) are now compelled to take small as well as large. It would be better to measure lobstere by barrel and not by the Norfolk measure of head and tail. The crabs are skewered before they

Bolling. Bort.

The meat sticks to the shell. It is impossible to stop the capture of berried hens. The lobster is most valuable when it is berried. There is a prejudice against orabs in warm weather in Edinburgh. (By Mr. Young.) June, July, and August should also be closed for lobsters. They are found then with soft shells. Knows of his own knowledge that the lobster fisheries in Lock Errihol and in Tarbert in Harrie are nearly fished out. There are not the same quantity of lobstere coming from any place now that used to come formerly. Every year the lobsters from Ions are getting smaller Most of the lobstere come from the West Highlands, from Portree, Mull, and all the islands on the West Coast.

are hoiled alive. It speals a lobeter or erab to put it first into cold water.

Decrease.

Queen's Hotel, Montrose, Friday, 6th October 1876. PRESENT:

FRANK BUCKLAND, SPENCER WALPOLE, and ARCHIBALD YOUNG, Ecquires.

CRARS. Decrease.

JORDEN JOHNSON, fish merchant, Moutrose (exemined by Mr. Buckland). Has been acquainted with crab and lobster fisheries from Cape Wrath to Montrone for 50 or 60 years. The orabs have diminished 50 per cent. in number; they have not diminished in size. The average size of crabs is 5 to 6 inches. One third of the crabs are below 45 inches. The falling off to 6 inches. One third of the crabs are below 4h inches. The falling off bas taken place since the railway was opened nearly 30 years ago. Nearly 30 years ago witness had crab fishings at Auchmithie, this side of Arborath; they took immense quantities; has had from that one place 140 baskets of a morning; each basket would contain 6 dozen. Doesn's suppose now that so many crabs could be taken in a season. Attributes falling off to over-fishing. Believes the crabs to be local, and to stay on their own ground.

Close Hous.

Thinks this because the Auchmithic crabs are the worst quality on the coast, and the Arbroath crabs, only 4 miles off, are much better. The only remedy for the falling off is an annual close time. Cannot say positively what this close season should be. It would be no remedy to kill the large and spare the small orable because the large crais a ref she spareners. Has known small crabs of 45 inches with roe in them. A gauge might protect the small ones; but it wouldn't increase the breed if the larger ones, which contain the most spewn and are most numerous, were killed. Does not, therefore, approve of a gauge because it would not preserve the large crabs. The principal markets for crabs are London, Birmingham, Manchester, especially London.

The merchants there will take any sized crab, but they do not give a great deal for them. Before the railway crabs were 4d a dozen, little and big. Price. The price rose gradually after the railway was made and is now considerably Inc price rose gradually ascer doe relievely was some in the last are batted with every kind of Food of fight, order heads, &c. Never heard of crabs being used as bait for crabs. The pote are made of wicker and set. 20 years ago the fishermen complained that if some law was not made to prevent continuous fishing, the fish would

go out of existence. The great crab fishing in this district is from Troup Head to Fraserburgh. Has never seen the crabbers above 2 miles out to sea. In 1816 lobsters were sent to London in the wells of smacks which were sent for the purpose. One would come every week. The smacks for the last 30 years have consed coming. The steamers first, and then the railway, cut out Railways. the muscles. Thinks that, as the steamers commenced running, the lobsters disappeared. Thinks that the falling off in lobsters is due to want of protection and of a close season. June, July, and August would he the proper Close time.

period of the year, but the chief time is June and July ; they come in spawn Spanning. in May, but don't spawn till June.

(By Mr. Yeang.) Recollects 30 years ago that the Act 9 Geo. II. c. 33, sec. 4, Sufercement of providing a close season, was strictly enforced. Has heard men say that it four. was close season and you could get no lobsters. The Act has fallen into desuctude for want of persons to enforce it. The officers of the White Herring Finbery Board would be competent to enforce the Act, and would have plenty of time to do so. (Mr. Yosse read the following passage from "White's History Decrease.

of British Crustaces." "The older fisherwan on the Moray Firth assured Mr.

Bell that the locaters on the Elginshire rocky coast had so diminished in " number 50 years ago, owing to the wast numbers taken by parties who then " supplied the London market, and they have ever since been comparatinely " rare.") Considers from his experience that the statement made by those

fishermen to Mr. Bell was perfectly correct.

(By Mr. Buckland.) The close season suited the smacks because they Suncks. could not carry crabs in hot weather, six days passage to London. The rapidity of steam made it possible to carry them. Does not think it worth while to return herried hens to the water out of close season. A berried hen is more valuable than any other lobster on account of her eggs-A berried hen worth 5s. would without the berries be worth only 4s. It Berried.

would be impossible to carry out a law directing them to be put back. Has no idea of the rate of growth of a lobster. They measure the lobsters by the barrel. A lobster 4h inches in the barrels counts as a whole lobster. Below that size they count two for one. Lobsters have increased very much in price. Price. 30 years ago lobsters were 4s. 6d. a score; they are now 30s. a score in the spring, 25s, in the autumn, but the price varies. In London they are now spring, 26s. in the autumn, but the price varies. In London they are now blot, each. The market is glutted. It is not necessary to have gauge. Has desuption as lobster of 6 or 7 ha, weight. The largest lobsters do not average above 65 inches in the barret. Thinks that the lobater is local. There was a spot of John's Huven about a mile off, which there was no difficulty in flating out. The ground was about 3 miles in circumference, generally a coal hostom.

Lobsters on shore will live best in common coal. (By Mr. Young.) The people employed in crab and lobster fishing are

generally old men and boys. Has known no grounds fished out, but so few lobsters are got that they may be said to be almost fished out. (By Mr. Walpole.) The hoats engaged at Auchmithic were chiefly employed in cod and ling fishing. Does not know how many were employed in each fishing. In old days, when smacks took the take, could not get lobsters because they were taken by the contractors. Now they all go by rail. Does Railways.

not know whether it would be possible to ascertain what number go by rail There are 75 per cent fewer go by rail now than used to go by the old Decrease. smacks. ALEXANDER GREG, manager for Joseph Johnson and Sons, Arbroath

(examined by Mr. Waipole). Has been manager for seven years at Arbroath. Before that was 16 years with Mr. Sutherland, a fish dealer at Montrose. Has had 23 years experience in erab and lobster trade. There has alwars been a railway since he was in business. Brings crabs and lobsters from Arbroath, and occasionally in July and August from Auchmithie. There were last year

LOBSTERS

LOBSTERS.

about 25 beats engaged at Arbouth in cash and babter tends, chiefly in the spring; server, uses ago these were obserf low engaged. The based have increased during this last serven years. Serven years ago crabs were 1.a. as comleted to the content of the control of the contr

Boats.

are plant in qualitative at they were seven years ago, believe if anything more received from the Colonia bar increased from the Colonia bar in the Colonia bar in

Weather.

summer. The summers are always better than oold summers. Crab flishing the summers are the summers and the summers are the summers. Crab flishing the summer is modify after besses of wind. They see the value of the summer is no falling off either in order of the summer is no falling off either in order of the summer is not the summer in the summer is not the summer in the summer in the summer is not the summer in London to the summer in the summer is not the summer in London to the summer in the summer is not the summer in London to the

Clase time.

the street were recting as 100 appear in London; kept his zoneers back in consequence. Has since sent them. The price of lotates proves that a large supply of lobsters was in the market from Norway or elsewbere. Satisfied with the present condition of things. Lobsters and crabs are not much fished after the middle of July as the boats are on the herrings. The herring fishery makes a close assess of its own for the lobsteres, and it is not

Gauge.
LOBSTERS.
Gauge.

second method secretal actions sufficient to the first second sec

Spanning.

sters. You can always get a lobster in spawn. Can't say when they spawn, nor whether the maintenance of stock is due to the natural close suscon.

(By Mr. Young.) Has heard of the 9 Geo. II. instituting a close season, but nerve heard that it was observed.

It is never attended to. The Act, he is certain, has never hean observed for 20 years.

CRABS.

(By Mr. Backkand, The LSO pun, train reaches London 4 a.m. the following day. Many of the shell fish are sent to London by this train.
Geomes Woop, faiterman, Johns Haven [carested Act Mr. Mr. Vennal.

Gange.

Gyres Ween, alterens, a harm to common year.

He has been suggest in each held belief raising almost 197. The fishing district the second of t

Close time,
Spawning.
So decrease.

should commence on the Jamy escape surrough the erect. The close season stormy to fish. The enals from the term of the best barden. The the the stormy to fish. The enals from at the end of October, but bus seen lobsters in spawn every day of the Den not know when lobsters spawn. Is acquainted with the fisherist much the fisherist more productive than others, have been presented in the state of the contract of the state of the stat

(By Mr. Buckland.) Baits pots with haddocks, young cod, and other fish. Has broken up crabs for bait when bait was scarce. Crahs are cannibals. If Batt for. it were made illegal to take small crabs wouldn't break them up for bait. Lobsters like a little motion in the water, not much. Not one lobster in 12 or half a score is below 4½ inches in the barrel. Never saw a lobster amaller Gauge, than that on table (6 inches). The bettom on which he fishes is sandy and rocky. Below 44 inches the crabs count two for one, but sees no harm in catching

them if above 3 inches. Thinks it is impossible to harry (i.e. fish out) the sea. James Walker, fisherman at Gourdon (exemined by Mr. Buckland). Has been fishing for crabs and lobsters for 36 years. Commences off his own shore and goes northward to Stonehaven. Fishes from the shore to a mile and a half off. As the scaron advances comes inshore. Commences fishing on the 1st March and ends at the end of September. About 40 pots go to each boxt. There is about 40 yards between each pot. The pots are down night and day. Has seen plenty of crabs, but they are getting source. The crabs are getting very Decreases, nearce. They are less than one half of what they were 36 years ago. During the last 20 years they have been falling off gradually. 36 years ago there were three boats out of Gourdon, now there are 20. Each boat has three times as Boots. much material as they used to have. It is no use to have a close season, but the small crabs should be returned to the sea. All under 3½ or 4 inches Gauge, should be returned to the sea. Now everything is taken and sent to London,

where there is a market for everything in the shape of a crab. Does not want a close season; at the time when crabs spaws there are no crabs taken. The Breviel. crabs carry their berries for six months. Sends no ran crabs (crabs with spawn) to London. They ought to be put back into the water. This would increase the fishery.

There are no lobsters to be got at all. They are worse than the crahs. His LOBSTERS. ground is not lobster ground, but there were plenty there 36 years ago. Decrease. Doesn't know the cause of falling off. Thinks all the berried hens should be thrown back to restore the fishery. Berried.

There should be no lobuter taken under 4½ inches in the barred. In olden times the smack wouldn't take anything under that size. They tie the lob. Gauge stern when they send them away and do not plug them. The crabs are all sent away slive (By Mr. Walpole.) There are now 20 boats for three when he began fishing, Rests. and each boat carries three times as many pots. There are really therefore now 20 times as many pots as there were 36 years ago. When he fished first the price of crabs was 41st a dozen, and 6d and 9d, for lobsters each. The price Price

now is 1s. 6s. to 2s. a dozen for crabs, and 1s. for lobsters each. Some of the flahermen are better, some worse off, than they were 36 years ago. The fishermen are not wholly dependent on the crabs and lobeters. The additional number of creels catch as many fish as used to be caught 36 years ago. The whole take of the 20 boats is as large or larger than the take of the three 36 years ago, but each boat gets a smaller share. If 20 people were trying to casch an animal which one used to try and exists, the 20 could not expect to get so many, but the 20 boats have fished out the store, and the store is getting shorter every year. The crabs keep to their ground, and in certain places are being fished out.

Dams Moin (exercised by Mr. Yoxo), Lives at Gourdon. Has been shing for 30 years. In sequentially with the coast for about five miles, between Tod Head and Gourdon. The fish hare fallen of a good deal is unumber but not in size. There are too many fishermen catching them. It would be a good thing to return all crabs to the sea under 4 inches. Thinks Garge. there is no use in a close season for crabs. June, July, and August is the very Crassitive. time to catch them. Would return all lobsters under 42 inches in the barrel. LOBSTI time to eatch them. Would estimated hosticus under 43 menes in the harred. House No close time is observed for blotters. All the blotters they give in this coast, cancel words speaking about. The price of crabs has increased very much; it has risen from 8d. of Ud., 1s., and 14d. a door, it has riven from 8d. of Mr. Brackens.] There are no lobstress worth speaking. (Executive by Mr. Brackens.) There are no lobstress worth speaking.

about. The bottom is sandy and rocky, more sand than rock. They fish on about two miles of sand and four miles of rock. The lobsters live chiefly on the rock, the crabs on the sand. The rock is covered with weed. Can Decreese. form no idea why the lobatest have gone away. The Gourdon fishermen knew that he (witness) was coming to give evidence, and thinks that, if they

CRABS. LOBSTERS.

CRARS.

CRARS.

CRABS. Used for bait.

up for bait. Mussels are chiefly used. Crabs are too valuable. Lobsters are tied and not plugged. ROBERT Anams (examined by Mr. Walpole), manager at Gourdon for Joseph Johnson and Sons. Has been engaged six years; before that was at Montrose as cooper and fisherman. Buys a great many crabs for Mesers. Johnson. Contracts with three boats for their whole take. Has done this for three years. The take continues much about the same. There are 20 boats at Gourdon; last year there were 19. They have had from 18 to 22 boats No deservase. every year for six years. The take per boat is just about the same as it always has been. No legislation is needed except as to size. All crabs under 5 inches should be returned to the sea. About a third of the present take are

Bosts. Gauge. Class time.

helow 5 inches. Knows very little about lohsters. There are very few lohsters in this district. A close season is not necessary for crabs. October to March is a natural close season. (By Mr. Buckland.) There are about three men in each boat at Gourdon. Thinks that most of the fishermen agree with evidence given by Moir and

Walker.

WILLIAM DOUGLAS JOHNSON (examined by Mr. Buckland), a member of the firm of Messre, Joseph Johnson and Sons, Montrose. Has been engaged for 25 years in business. Arbreath is the principal station of the firm for crubs and lobsters. Does not think that there is any falling off in the aggregate take of lobsters and crabs so as to affect the public supply. Whenever the price rises the quantity always comes forward. Is not in favour of a close season; thinks it would be of no great advantage. Thinks a grab of 42 inches is a good marketable crab, and abould not be returned. It would be worth 14d. boiled and retailed. Thinks, therefore, the gauge should be 4 inches. All below that size should he returned. Lobsters below 45 inches in the burrel are half lobsters, and no lobster under 4 inches should be taken at all. Never heard of lobeters being plugged. The berried hens are very valuable; but the London merchants do not give more for herried hens than others.

LOBSTERS. Ganny.

(By Mr. Young.) Knows no places where crabs and lobsters were once plentiful and are now fished out.

Imperial Hotel, Aberdeen, Saturday, 7th October 1876.

PRESENT : FRANK BUCKLAND, SPENCER WALPOLD, and ARCHIBALD YOUNG, Esquires.

CDIDE December

WILLIAM PAUL (examined by Mr. Buckland), advocate of Aberdsen; lives at Stranathraw Cottage, Muchalls, Has lived there 10 years, and been interested in crab and lobster fisheries. There are five boats in village of Stranathraw or Muchalls, representing about 30 men. They are all white fishermen, but all have crab pots. Each bost 10 or 12 years ago had three or four creels, and now each boat has only one or two. The crabs have fallen off in numbers, Has observed no decrease in size. Was told last night by an old man, Alexunder Christie, that crabs had fallen off in size. Thinks that the falling off is due to the mode of fishing, which is most improvident. In September and October crahs are in the best order. After that the female crabs spawn, and they get in bad order and are unfit for food. Understands from fishermen that when they spawn they cast their shell, and gradually improve from that time till mouth of July. When they get in bad order fishermen catch many more than when they are in good order. Has often in November himself som great

Spanning.

basicist full of crabs, all of which were unfit for human food. These crabs are used as hait. The broast is pulled off and the back is used. The crab is Used for batt. the best bait, far better than mussels. A line of 40 score books is baited one half with erabs (if they can be got) and one half with mussels or bullock's liver. Twenty crabs are required to hair one line. The crabs are not used as bait when they are in good order, they are too valuable. The claws of crahs in November are soft and watery. Thinks that the wanton destruction of craise unfit for food is the cause of scarcity. Even in October, when crabs are in

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CRABS.

ood condition, the claws are sent to market and the bodies used as bait. The body of the male crab is rarely sent to market, it is retained for hait, and the clays along are sent to market. Both the claws and body of the female crab are sent to market. Sees no cause whatever for diminution of crabs, except catching them out of season from November to July. November to July Closs time would perhaps be too long a period for close season, but some close season ought to be adopted. In the season when crabs are in good order there are very few small crabs caught. Sees the small crabs chicky in winter and suring. The sea off Stransthraw is rocky, but southwards towards Stonehaven and Bervie there is more sand, and this is the chief scat of the crab fisheries. Thereason of this is that the bottom is sandy and more favourable. Even in October there are always a few spent crahs among the good ones, and vice versif

in November there are always a few good crabs among the bad ones. The only way to stop improvident fishing is a close time. Does not think it would be practicable to have a gauge. The fishermen would break up the crabs for heit. Does not think that the fishermen are in favour of a close season; they all say things are going on well as they are. Ten years ago would have considered 2d. or 3d. a fair price for a crah. The same sized crab now would cost 5d. or Price. 6d. The increase in price is 100 per cent. The fishermen now don't make the fishery so much of a trade as they used. They devote their attention to the haddocks. A great proportion of the crabs caught go to Glasgow, Birming-ham, Manchester, and the midland towns. The crab fishing ground extends from the Bay of Stonehaven to Bervie, shout 15 miles.

(By Mr. Young.) Thinks that a continuance of this improvident mode of fishing will lead to further evil. Is not sware of the statutory close cases for lobsters. The Act is neither known nor observed. The fishermen now go further from the coast to set their creek than they used to do. Understands from the fishermen that the male cash is in the best order about Christmas, season for the female crah in September and October. The present season has been a vary good season for crabs. This is due to the fact that there has been a good deal of rough weather, and the crabs go easier into the pots. The crab pots are invariably haited with haddocks' heads. The pots are made of thin Boil.

spars of wood and netting.

The number of crocks in each boat has diminished from three to one. Resta. Practically there is less machinery for catching crabs than there used to be.
At some of the villages they don't fish at all. The reduction of machinery is not, however, leading to increased production of crubs. The evil is, no doubt, reduced, but the reduction has made no perceptible impression. The great object of the fishermen is to get crahs for hait. Crabs are the most aucressful bait. Tainks it not possible that crabs may be more useful as bait than as food. Other bait is always available. The provision of other bait would be more expensive, but the evil would not be comparable with the evil done to

the crab fisheries

the period of the year when crabs are getting into good order, and would be too late. Would much rather make the close season commence from the middle of November or 1st December for four or five months. This is a very stormy period of the year. Fishermen cannot pursue their fishery in the market. stormy period of year, but in frosty weather they can go out very easily, and they often go to the crab pots when they cannot go out with their lines. The natural closs time due to storms is dependent on seasons. Taking crabs out of season is almost entirely due to taking grabs for bait. The reduction of Used for bait. Salary machinery spoken of hefore has not led to an increase of crubs. The fishermen are so anxious for bat that they will hardly sell a good orab; it pays them better to get them for bait than to send them to market. The law pays areas Justice to got them to see that the const-guard. The White Herming mafavement of Fishers Board has no officers on the const that he knows of. Thinks it would fee:

but the small crabs would then be used as bait. Does not think that the fish caught with crabs as hait compensate the consumer for the crabs that are destroyed. (By Mr. Young.) Is not aware that in the Firth of Forth the long-line

the mean prefer mussels to crabs for bait. In this part of the coast they Used for bait.

The crab is broken up and tied on to the hook

(By Mr. Walpole.) A close season in June, July, and August would be in Class time.

with wool. If there is a close season it must at any rate he for the whole of CRARS. Scotland. There would be no difficulty in enforcing a local close season in

Boiling.

Price.

his district either by the coast-guard or by the officers of the White Herring Fishery Board. Salmon nets are all removed on the commencement of the close season, and the crab croels could be removed in the same way (By Mr. Buckland.) There is a great demand for crabs in Aberdeen.

in the winter months there are no crobs in the market, only their claws. The

crabs are all boiled in the villages. They are stabled first

WILLIAM RHIN, advocate, Aberdeen, clerk to the Dee and Don Fishery District Board (esamined by Mr. Young). Objects to a gauge for crabs, because, though it would be a test of size, it would not be a test of condition. In the winter months even well-sized crabs have scarcely any meat in the shell, only Olose time.

in the claws. Would prefer to have a close time of at least four months, commencing on the 1st November. Thinks it would be generally observed by the fishermen if passed into law. WILLIAM MESS, fishmonger at Aberdeen, A. fishmonger 16 years. Had a fishery at Catterline (5 miles square), near Stonehaven, for 10 years up to 1874.

There were 25 men fishing for crabs from April to July. The herring flahing commenced in July. In September and October resumed crab fishing. Left No desrease. off from November to April. Crabs have not decreased. The last year he had the fishery he had 800 dozen in five days. The number of creels had doubled in the 10 years; there were more traps taking the crabs. But thinks the crabs are fewer, and that if the fishing machinery had not increased he would not have half so many craha as 10 years ago. Thinks, therefore, that the crabs

have decreased both in size and quantity. Gets crabs as large as 8 or 9 inches, and some as small as 3 or 4 inches. Fully one balf are small. Is in Close tims. favour of a close season in June, July, August. Thinks the crabs are then in good condition. They are in the worst condition in November and December: but November, December, and January are naturally closed. In

those months the crabs have sourcely any meat in their shells; the claws only Season for are used. Thinks that it is impossible for many crahs to be taken then. Does not think many are taken in those mouths. The male crab is in the best condition in March, April, and May; the female in September and October. The English prefer the male crah; the Scotch the red meat (undeveloped spawn) of the female. Manchester is the hest market for crabs. There ought Gause.

to be a gauge. All helow 4t inches ought to be returned to the water. Thinks that a good many fishermen are in favour of this. The gauge would effect an improvement in time.

The gauge should be 44 inches; it would be a test of size not of condition. The Aberdeen people are very fond of crabs, and have been used to them for

many years. Would be pleased with a regulation gauge, as very small crahs are of no use to them. The crahs six years ago were sold to him for 10d, a dozen of 13; he now pays 3s, and as much as 4s, for them. This is due to the scarcity and also to the railway, though at this time (October) the railways don't take them south, and the crahs are chiefly used for the local (Desside) demand. They are sent all over the district up Deceids as far as the castle town of Bracmar and up Don side. Cannot get as many crabs as he wants for the local demand, they are over-fished. To prevent this would have a close sesson in June, July, and August, and would return also all unsizesble crabs to the sea.

Gets his lobsters principally from the Orkneys,

JAMES BARLOW, clerk to Mr. Meff (exemined by Mr. Walnole). Manages

Mr. Mcff's accounts. Has directed his attention to accounts of the Catterline fishery. The produce of that fishery decreased while Mr. Meff had it. The decrease was due to over-fishing; double the number of nets only caught the same number of crabs. Heard what Mr. Meff said shout a close sesson. It is difficult to say when a close season should be. Thinks, however, it should Ologe time. be in June, July, and August. The male crahs are not unsaleable then, but they Govar. are better in April and May. Is in favour of a gauge, thinks it should be

5 inches. This is the smallest that there should be. All crabs below this should be returned. Would have the same gauge for males and femeles. Males are the largest, especially their claws.

(By Mr. Young.) The close season should apply to the whole of Scotland, and should be a close season for buying and selling as well as taking, as in the Salmou Fishery Acts.

IRABELLA McKinlay. The best months for crabs are July, August, September, and October. Nothing under 5 inches ought to be taken. In April, Gause

May, and June the female crabs are in bad order but the male crabs are Season for. Mas. Lavingstone, fish-saleswoman. Londoners want crabs in January and Used for beit. February, the Scotch in September and October. If the fishermen could not catch crabs in winter they would have no bait for the lines. Mussels are expensive and difficult to get on account of the spates in the river.

North Eastern Hotel, Peterhead, Monday, 9th October 1876.

PRESENT: FRANK BUCKLAND, Esquire.

THOMAS HUTTON, Custom-House officer. Has lived at Peterhead nearly 60 years. Knows the bulk of the fishermen. There are not above five or six bosts going out to the orah and lobster finking. In his experience the crab and whether the crab and the standards of the crab and the standards of the crab and the standards of the standards. Does not know if they Decrease, calls have disminished in numbers more than half. crans have diminished in size. A great many orabs are taken among the rocks with have diminished in size. A great many orabs are taken among the rocks with clips by women and children in the months of April, May, June, and July. cape or yearns and chalters in the mouths or April, May, June, and July, The caple below with the dip are mostly small, about 3 or 4 indees; a 6-inds "section" or crab is a large one. Other orabs are called "dog crabs." They are not in spaws at that time. Never see them in sparse on the Shane Spansing, they appear in deep water. Attributes the failing of the large of the place of the weather here while caving share shall. Her and been able for the last three years to get a he-parton or cran that did not want a claw, and many had no claws. This is on account of their being soft when casting their skells, their skys. claws being then knocked off by storms. The crabs here are not over-fished. convey using since an over-matter, on my stormer, and excess now no over-matter.

Those caught here mostly go south by relivery. To increase the size and cross-month of the cross, there should be a close time from July to September Cross-time. number of the coult, mere smalle them to barden their shell and increase for crabs under 4) inches to enable them to barden their shell and increase or critica moder a juscicas to causite team to narious trafe shall and increases in size. There are some lobbrare them here, but the numbers have Loisure falles off. Thinks it is coving to the bad some years. They are causiful traffic the contract of the LOBSTERS. found with roe at all seasons. Has seen lobsters as small as 3 inches. Lobsters oset their shells in June, July, and August. The female lobsters should not Soft. he taken during that time. The he-lobsters might be taken them.

GEORGE BRUCE, fisherman. Has fished for crubs for 14 years. Fishes from Rattrayhead to Buchanness Light, a distance of 12 miles. The farthest distance be fishes out at sea is 400 yards. The crabs are taken on a rocky bottom, at a depth from 15 fathoms to 3 set of water. Catches them in rings (iron rings of 22 inches dismeter with a net of small mesh). Baits this net with Datt for, fish of any kind. The rings are hired four times at night. Sets about 40 rings. Never saw more than one partan in a ring. A crab could get out of a ring quite easily. Does not think the crubs have fallen off much here. Last season shere were three bosts from Buchanhaven, one from Peterhead, and one from Burnhaven. Crabe have not diminished, either in size or number. Is No decrease. sure the ground is not over-fished. Believes is would be advantageous to have men the ground is not over-shield. Retirent is would be advantageous to have a cable smooth over-the. July and Alegorith should be the close access, because Chee fear, a close smooth over-the. July and Alegorith should be the close access, because Chee fear, then they spawn, and cast their shells and are off.

In the spawn, and cast their shells and are off.

In the control of t ament crace, or source are various to one. Few percent are used as balt.
If it were made illegal to take these small crabs for balt it would be a little inconvenience to the fishermen. More small crabs are taken by women and boys on the rocks than by regular fishermen. They sell and eat them. Does not know if they would consider it a hardship to be prevented. The general

OBABS.

LOBSTERS Degrease.

Quues.

size caught by the women and children is about 4 inches and under. These crobs are not sent away by railway. The regular fishermen send orabs away by railway to London, Newesstle, Manohester, and elsowhere. The price is sy raiway or the same as it used to be. Has seldom, if ever, seen a partan with roe in it, therefore no law on the subject is necessary.

Lobsters are caught in the same places and in the same way as crabs. They Lobbies are canger us the same passes and in the same way as crans. They have fallen of greatly during the last force years, both in size and number. The causes are over-fahing, the bad coast, and destruction by storms. They deposit their spawn among the rocks and the sex rolls is up and destroys it. They principally spawn in July and August. Has found berried bents at all sessions of the year. Would put book all small berried hears under discharge as an association of early ear. Would plus becaute all small perfect lens under 4 linches in the barrel. Many small lobsters are found in spawn. The largest lobsters caught are shout 7 lbs. In the winter the ceals go into deep water, Would not deny that a law giving a close time for crais during July and August would do good, nor that a gauge of 41 inches for the minimum size

Migration. of erahs would do good, if the fishermen were allowed the privilege of using them for haif when the haif was acaree. A great many crabs are killed during January and February,—in fact throughout the year,—by storms. The best part of the coast is between Aberdeen and Pelerhead, especially from Frascriaurgh to bertrowed by

Rattray Head. The latter coast is the best for lobsters. A ship with a cargo of tobacco was wrecked about 40 years ago at Kirkton Head, 3 miles north of Peterhead. Before the wreck occurred it was usual to catch four or five lobsters in a ring , after the wrock occurred they were thrown up in cartloads on the shore, and the fishery has been very poor since.

Beason for. There is a local saying that, "as the corn fills the lobaters improve." Crabs and lobaters are in best condition at harvest time. Would have a close time

for July and August, and fishing to commence in September.

Cantain David Gnav, of the steamship "Eclipse." Has known Peterhead Close time. all bis life. Has heard the witnesses, and agrees with them. Most decidedly thinks July and August should be a close time, to allow the females to mature their ova and recover from spawning. As protection is applied to salmon in the breeding season, so it should be applied to craby and lobsters. No crabs, CRABS. Gauss. take crabs under 54 inches, the women and children who took them about the rooks would be probibited. It is very necessary that they should. All crabs under that size should be returned to the water. Occasional storms in July and August may have the effect of destroying large numbers of crabs

when they are soft. Peterbead is not a place where the fishermen make crab and lobster fishing a regular business.

George Buchan, of Buchanhaven. Has been a fisherman for crabs and lohisters for two years. Did not get so many crabs last season as he did the season Derresse. before. Thinks they are falling off on account of being over-fished. They have diminished about one half. Fishes in May and June. Thinks there Closs time. ought to be a close time during July and August, because then they are casting their shells and are breeding. All orabs under the inches should be nut back Gamer. LORSTEDS into the sea at all times of the year. Lohsters were very scarce last summer. Thinks the cause is over-fishing; but the scarcity may be caused by the season. Gouce. Berried hens under 4 inches in the barrel should be returned to the water. Larger heroid hens should be kept. Sends crahs by railway to merchants. The price has not altered. Before the wreck at Kirkton Head there was a

great abundance of lobsters. The tobsore was in casts and killed the lobsters for six or eight miles along the coast, as the casts broke up. Does not think it of any use to restock the ground; but the lobsters are not utterly exterminated. Has lately got 35 lobsters in one night up and down this ground in 40 rings and 20 creeks.

CUMMING SUMMERS, Peterbead. Has fished for crahs and lobsters about

a year and a half. Pishes from about half-a-mile to 100 yards from the shore. Uses the croels (not the rings). The first year he did very well. Has caught four or five lobeters in a croel. Last year he used 14 croels and caught no closters at all. Crabs (pertans) go south of Buolann. They are plentiful and CRABS. are not flabed out. The average size is 7 inches. Thinks there should be a close time for crabs in July, August, and September, to allow the young ones to he born, and the small ones to grow larger. Lobsters have got scarce. Last year he fished with six creels in the winter, and caught as many as with

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20 could in the armune, fluridors be appear they have been even-fluids. JOHN TELL, World have a done time for foliation from the June to Ellat. Alongest, during given which time no labeters, of any little, about he inton. The fatherment are of the state of the stat

names. This never name of the total control of the Act of 9 George II. cap.

Thomas Hurron (recalled). Has beard of the Act of 9 George II. cap.

3. but never knew it carried out.

J. Strukers, of Bodham. Is a fish curer. Used to go about as a boy with his father 25 varia acc. Caught many crabs then. Caught 72 crabs full

33. Just never here it named, one, at the narre. Used to go shout as a loop of the control of th

not layer than his faunth-soul rought. Suggests the formation of districts like Polymoment of Captain David Districts, which should be let to and placed under the six authority of tackurars, who would fish them on a system, and enferce the close some and the through fasted small carlo in their own basics, and the contract of the con

lobalters all the time.

JAMES INGRAM. Has been secretary to the Ugic District Board for Inforcement of 20 years. Thinks the herring fishery officers should have authority to carry less, out the regulations as to close time which have been proposed.

The Hotel, Cove, Kincardineshire, Monday, 9th October 1876.

SPENCER WALPOLE and ARCHIBALU YOUNG, Esquires.

Farms Terran (comined by Mr. Yamp). Resides at Town, and has been a stations findermen for 29 years. He shoring that time paid storious to the early finderies. A good many risks are caught between this and Berrie; Shishin to the early finderies. A good many risks are caught between this and Berrie; Shishin the Common of th

reason of decrease. Does not think it is due to over-fishing. Does not think it is, because in Docenneber, when out of condition, the crubs are as plentiful as ever when they are in condition they are carrie. Thinks a close season would close time, do good. There is no close season observed at present. The close season should comprise Docenber, January, and February. The weather greatly

OBABS.	prevents erah fishing in these months, so that nature makes a close season of her own. Thinks, however, it would be well to supplement the natural with a
Gauge.	statutory close season. It is also in favour of returning small crabs to the water. The gauge should be from 4½ to 5 inches across the back. The White Herring Fishery Officers and
	the coast-mand men could see the gangelenforced. A gange would be no test

of condition, only of size. Crabs are not used for bait for the long lines, but they are used for the baddock lines. 40 score of hooks are on a common fisher-Used for boit. man's line. The hooks are baited with crabs, bullock's liver, and mussels. Mussel bait is not plentiful here. It all comes from Montrose. There are no mussel scalps between Cove and Bervie. Mussels come from Montrose and Port Glasgow. The reason for using crabs for bait is the scarcity and dear-

ness of mussels. Cannot say that this use of crabs for bait has been the cause of their scarcity. Crobs are more valuable to the fishermen for buit than for the market.

Reate.

(By Mr. Walpole.) 29 years ago there were about 30 heats : there are now two extra boats at Muchalls, five extra at Skateraw, three extra at the Dunnies. four extra at Porthlethen, five extra at Cove. There are now 51 hoats. The crab each. They do not average now three to a boat.

ground extends from Cove to Bervie 18 miles, and 4 miles seaward. The boats do not depend on the crabs but on the berrings, and only fish for crabs till the herring fishery commences. 29 years ago the bosts carried 10 nots Crabs are very valuable for bait. If December, January, and February were closed the fishermen would not be much injured because they cannot get out

to sea then. It would, however, do good to close those months.

MITCHELL CRAIG (examined by Mr. Walpole). Has been fishing for 40 or 50 years at Cove. There are not so many crabs as there were. As a youngster has taken 40, 50, or 60 crabs in a crock; there would not now be a dozen crabs in a crest. Does not know what the decrease is due to; but thinks that they catch more full crabs to the southward, and more out of condition on his own ground. Recollects smacks coming down from London for crubs before the railway was opened. The crabs have been decreasing ever since. This looks Spacetor.

Thinks it would be a good thing to prevent crabs being caught in November, Gloss time. December, January, and February. It would be no injury to the fishermen, who can always get bait because of the railways, which bring them mussels. Mussels cost here about 11, a ton in carriage by rail; this is the chief cause of the expense of mussels. Thinks it would be a good thing to throw back all crabs below 5 inches. Thinks the fishermen would be in favour of this law.

Fishermen would like a law to say that no crabs should be taken in November. then in good condition.

December, January, and February, and no crabs under five inches at any time. A close season in June, July, and August would be absurd because they are Peter Tester (recalled). Blames the trawlers on this coast. They come all over the crab ground and keep the crabs they trawl up. They began to come three years ago. There were very few trawlers before that time. The crabs decreased 20 years ago, but there has been a decided decrease since trawlers came on the coast. The trawlers come principally from the Firth of Forth. Is in fayour of a law stopping all inshore trawling. The trawlers also interfere with the lines. James Marr (examined by Mr. Young). Lives at Cove; has been a salmon

fisherman for 25 years. Has paid some attention to crab fishing on the coast. Is sure they do not catch so many make now as they did 10 years ago. The crabs are not much smaller but much less numerous. Can't tell what is the cause of the decrease. Thinks too many breeding crabs are taken. The crabs get out of condition in November

Has formerly seen in the Bay of Nigg 70 to 80 crabs in one net, and now there

are not a dozen taken. The bosts do not engage regularly in the crub flahery; a few crabs (the best) are sold, and the rest are kept for bait. There is vary little flahing for crubs in the winter months except for bait. The flahermon might object to being stopped fishing from November to February, because the bait is valuable. Thinks the trawlers have done as much harm as anything. Tonslore They sweep up everything small and large.

The Inn, Muchalls, Monday, 9th October 1876.

PRESENT

SPENCER WALPOLE and ARCHIBALD Young, Esquires. ALEXANDER LEPHE (exemined by Mr. Walpole). Lives at Muchalls; has born a fisherman 40 years; has fished for crahs all that time. There are now five boats; 40 years ago there were three heats. They fish also for haddock and herring, and for crahs all the year through except during May, June, July, and August, when they are on the herring fishery. Commences crab fishing in September, and fishes all through the winter to the following May. In the winter crahs are used as bait. There are five men in a heat, and each man has a Used for bait. ercel. 40 years ago used to use two or three creeks per man. Doesn't think that the crahs are scarcer, but can't get freedom to take them. The Stonehaven and Cowie men fishing with long lines find their lines get foul with the creels and then out the gear of the crab lines. The Stonemaven men fish for crabs themselves. This conduct keeps the Muchalls men from erabbing, and so they can't get crabs. If it wasn't for this there would he as many crahs caught as ever. Has often had his own goar ent. The Storehaven men say they do this, and that they will do it again. The ground extends from Carron Ness on tens, and mast tory will not a square. An eigenum extense from Carron Ness on the north to Dunnotter Castle on the south. This is about three miles long. This was the hest erah ground between Stonehaven and Aherdoon; it is a patch of rock in the middle of the send. The conduct of the Stonehaven men keeps them off it now. If it wasn't for the Stonehaven men the crab fishing would be as good as ever. The conduct of the Stonehaven men took 100% out of Muchalls village this season. There are no fewer crabs in the sea this year, but every year is not alike. The crabs cast their shells in the latter end of Seyl. October. After the lat November it would be a good thing to prevent their being caught. November, December, and January being closed would not Close time. injure the fishermen. Could get other hait in those months. There are not many small crabs taken. They get out of the creeks. The 2-inch crabe get

out of the crecks. (By Mr. Young.) Every third hook on the long lines is baited with crabs, Uzet, for balt. while two thirds of the books are baited with mussels and bullock's liver. The mussels come from Montrose and Port Glasgow, and cost about 14 per ton for carriage. If crabs were prohibited as bait could get other hait for the long

lines. Recollects smacks coming down from London for crabs, but they did not occasion any scarcity. There is no meat in the crabs in November. A

gauge would be no test of condition, only of eise.

ALEXANDER CHRISTIE of Muchalls (examined by Mr. Young). Has been a fisherman since he was 16, is now 72. Came to the village of Muchalls in a fisherman since he was 16, is now 72. Came to the village of Muchalls in 1823. Has a long sequations with the orbolishing. There are not nearly so Derevase many crabs now as there were when be was young. They are full as big in size, but they have fallen off in number. When the began there were only two bests out of Stuckalls. Each heat had 12 creels and 4 men. Crabs then bears out of citizensia. Learn noise has a factor of the part of the very lear and left a dozen. They have this year been as high as 4s, or 6s, per prise, dozen. Most of the crabs here are large. They use the crabs in November, rated far batt. December, and January as batt, but it would be a good thing not to catch them in those mentile. Dozen not think it would do any good to return the Class time. small crabe. Agrees generally with Mr. Leper's evidence. It is 10 or 12 years

SERIAL CROSS Agrees generally a state of the fishery.

ALELANDER CHARTIE (crossing by Mr. Walpole). Nephew of the preCHARLANDER CHARTIE (crossing by Mr. Walpole). Nephew of the precoding witness. Lives at Muchalls, is 50 years old, bas fished all his life;
heppa fishing in 1845. There are not so many crabs now as there were in Decrease. 1845. But would get as many crahs as ever, if he could go to the old ground. Can't go there now because the Stonehaven and Cowie men destroy their creels. can up there now measure the comessive and covers men entirely their creeks. Has often had his own pare destroyd. There are just as many crabs if he could go to the same ground. Thinks that in November, December, and January cresh are of no use for bod, and very little for bait, and that these close times months therefore ought to be closed. They don't suck the crebs in February months therefore ought to be closed. and March. Only care for September and October. The traviers don't come here, and the great thing would be to stop the Stonchaven and Covic men inter-fering with them. The Stonchaven bosts have gradually increased from 6 to

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40353.

CRABS.

fere with the long line fishing. Captain HENRY TRORBURN has lived here 13 years in the summer, and confirms the evidence of preceding witnesses, who are all reliable men. JAMES CHRISTIE (examined by Mr. Yosoy). Resides at Skateraw; has been a fisherman for 22 years. Has fished for crabs all that time except this

Decrease. Moss time.

year. The crabs are searcer than when he began, they are a complete failure. The crabs are over-fished. The crabs are very plentiful in the winter months, and taking them then for bait has to do with the falling off in the fishers. Is would be a good thing to close November, Docember, and January for the crabs, but it would not be favourable to the fishermen, as it would prevent them getting bait. Fishes off Muchalls. The Stonehaven men only occasionally come up there. They have never destroyed his gear. There are double as many hosts as when he began fishing. The boats carry fewer pots than they used to do. This year there is not a single pot in the whole village. Last year was a very had year, and the October storms destroyed the pots, and they did not think it worth while renewing them. Crabs under 4 inches are all thrown back, and

all berried crabs are thrown back. (Bu Mr. Walnole.) Would not object to November, December, and January being closed.

Station Hotel, Stonehaven, Monday, 9th October 1876.

PRESENT:

SPENCER WALFOLE and ARCHIBALD YOUNG, Esquires. JOHN MASON (excessived by Mr. Walpole). Has lived all his life at Stone-haven, is 61 years old; a fisherman; fishes for crabs and lobsters; fishes off

Dunnotter for crabs; finds the lobsters and crabs all along the coast where the bestom is rocky. There are 5 boats from Stenchaven fishing for crabs, over 30 bonts long line fishing. The long line fishing extends 20 miles out to ma. Some boats carry 30, some 20, some 60 creels. There are decidedly not so many crabs on the Dunnotter ground as when be began fishing. They have Decrease. all gone to Manchester and London and the better markets. They are overfailed. Can't see how they can be restored. Commences fishing for earls in April; continues till the end of June, when the bulk of the fishermen go to the Close time. herrings. The herring season lasts from the 10th July to the 10th September. In September resumes, crab fishing, and fishes till the end of October. After October crabs are only used as bait. Does not think it good that they should he used as bait. Thinks the close time for Kincardineshire should be November, December, and January. Such a close season would not be a bad thing.

Gover.

LOESTERS. Genos. Giose time.

for bait. It would be a good thing to return all under 5 inches. It would be A difficult thing to enforce this law, it could be enforced it would be desirable.

A penalty on buyer and seller would be a restraint.

Used to get a good few lobsters, but they are over-fished. Not nearly so many as there used to be. Takes all lobsters from 4 to 5 inches in the barrel. It would be a good law to prevent capture of lobsters less than 5 inches in the barrel, but it would be difficult to observe it. The erab close season (November, December, and January) would do for lobster close season. Cannot practically catch them in these months. Thinks that crabs in ros should be

Returns many small crabs to the sea. Thinks it would be a good law to return all unsiseable crabs to the sea. The undersized crabs are now used

returned to the sea, Wouldn't return berried lobsters.

(By Mr. Young.) Crabs have not decreased so much in size as in number. When he commenced fishing crabs were 6st. per dozen. The last he sold were

ls. 6d. a dozen. It would be difficult to enforce the law of gauge. There are many ways of evading a law at sea. If you can't stop the sale in the market, you can't stop their capture at all. At this time of the year (October) no crabs are used as bait. They are too valuable. The great bulk of the fishermen have given over crabbing as it doesn't pay. Mussels are the great staple bait of Kincardineshire. They are very costly—2s. 6d. the quarter basket—

CRARS. Decrease. Used for batt. 23 of these to the ton. They are marrly 31, a ton before they are delivered at Spensherm. Grabs are the last that they me has ead quickly, but other-before the state of the 3th they are the state of the 3th Goo. II., which provides a done season for belaters. Does not spipeved the does assoon in that Act, (June, July, August), for Kinesedinadivs.

10.1087/ACRAG COWNIT (received by \$M\$. Zeesp.). Has been a fisherment for

45 years. Crabs have decreased; the decrease began about 20 years ago. The Decrease decreases in due to over-fishing. Agrees with every word of Mr. Mason's evidence. JAMES NonLE, of Cratown (committed by Mr. Young). Has been a fisherman for 20 years. Has fieled a good deal for crahs. They have fallen off greatly in numbers, since he began fishing. There are too many creeks and the crabs are over-fished. Cratown is about two or three miles from Dunnottar and the Cratown ground extends about four miles along the coast. There are many more boats than when he commenced fishing, and the boats carry more Deats. than twice as many pots as they used to. Each boat, with double the number of pots, doesn't get half the number of craha. The neice is about three times what it used to be. Thinks it would be a good thing to close November, Gless time. December, and January. Thinks the fishermen would observe the close season. Would exther lose the lat than take the crabs then. Has caught 90 or 40 LOBEST blockers in one creel. They have fallen of too. Thinks this is due to over Decessor, lobsters in one creel. They have season for lobsters should be the same as for crabs. Class time.

Would private all even under the index source for labelite a source for each. Concern Would return all each under de index to the water. A short that Would return all under 4th index is not true length on the property of the control of the contro with 10 to 12 creels than they do now with more than double that number. Thinks the close season should commence in the middle of October, and end Gose time. at the end of January or the middle of Fehrenry. There is no doubt that this as the one of January of the middle of Fernancy.

would be a good law for the fiberment. Crabs are of little value in those months. A 45-sinch gauge would be a good thing for crabs. A 55-sinch gauge would be a good thing for crabs. A 55-sinch gauge move used for lobsters is 44 inches in the barrel. LORSTEINS. Would be too large. The gauge now used for lobsters is 44 inches in the barrel.

Below that they count two for one, and below that thinks they should all be Gauge. returned.

OBARS.

Used for bail.

LOBSTERS.

CRABN.

CRA HO

The Fife Arms Hotel, Banff, Tuesday, 10th October 1876.

PRESENT:

SPENCER WALFOLD and ARCHIBALD YOUNG, Esquires. GEORGE FINLAY, of Whitchills, near Banff (examined by Mr. Young). Was born and bred a fisherman; is now a general merchant and fish mer-chant. Is 63 years old. Commenced fishing for lobsters and crabs 40 years ago. Was at this work for 7 years. There are as many crabs caught now as were caught then, but there is more machinery used in taking them. He commenced fishing in 1832. An English company at that time sent down welled smacks, and bought lobsters through an agent, James Logic. This welled smacks, and bought lobsters through an agent, James Logic. This agent engaged the fishermen who had 11 bounty and 3½. For every lobster 2 reice. over 7 inches from tip of nose to the flap. Under this size half price. These

smacks hought a great many lobsters, but no crabs. This system went on for about 12 years. After that time the smacks left the coast, as the lobsters were becoming so scarce that it was hardly possible to get the tosters were becoming so scarce that it was instead poissons to gife them. It was indeed that the Neway bolistics were constituted to the artists so decomposing with the Neway bolistics were constituted to the artists and the satisfact of t

the lobsters were 3td, each. When smacks ceased coming in 1843 an agent LORSTERS. came from Rosehearty to Portsoy; the name of the man who sate the lobsters away hy rail was Duthie. He gave 8d. each for them. This agent remained about three years and then left for the Western Highlands. There has been no agent since, and each fisherman sends his own take away south by rail. The price varies, but they have bad as much as 5s. for a lobster. The close senson of the Act 9 Geo. II. cap. 33 was never known or observed here. There is very little doubt that a close season for lobsters would be beneficial, but it Choos time. would be a puzzle to fix it, as lobsters breed all through the year. Thinks that a gauge would be beneficial and that it should be seven inches from the Games. tip of the nose to the beginning of the tail. For the sake of preservation it would be bester to return all below that size. There are not many caught below this size, but those that are caught are kept. Thinks no reasonable

fisherman would object to the gauge. It would be a great advantage to return berried lobeters to the water, but at the same time it would be a great sacrifice to the fishermen: 30 per cent. of all the lobsters taken are "berried" all the season through. The crahs have also fallen off, though more are coming into the village in CRABS. consequence of the increased number of appliances for taking them. With Decreese. the same number of pots in 1839 they would have eaught double the number of crabs. When he commenced taking crabs as an agent 12 years ago he paid 11d. for 12. The present price in Whitehills is 3s. 6d. a dozen. This is

due to competition, and cannot prohably continue.

Produces rough chart of sea bottom adjacent to Banif, McDuff, and White-

Mirration. hills, showing that in the autumn months the crabs are out three miles from land; and in the summer months, May to August, near land for shelling There is very little meat in the shells in November. The crubs will make a close season for themselves in the winter months when they are all down in the sand. November, December, and January are uscless months to the

fishermen. Crahs cannot be mught in these months. Crabs are occasionally · Used for bail. used as half but not in November, Docember, and January. The principal beit are mussels, which come from Port Glasgow, though the crabs are the finest hair. The crabs are too valuable to use for bait. Would return all crabs under 5 inches (By Mr. Walpole.) The sketch purports to show the position of the crabs from May to Angust, and in September to November. From May to Angust

from May to Angust, and in opposition to Atoria and a contract the crabs are on the analy bottom near the shore, and on the adjacent reefs near the shore. Thinks they come on to the foreshore for the purpose hedding shells. near the shore. Thinks they come on to the foreshore for the purpose of "shelling." The cabe at that time are in a very had condition, though many people fancy them. Not 10 per cent. of the crabe caught in the summer months (May to August) are females. The rest are all males. The male craise are, however, also in had condition in these months. The young crabs (male and female) are near the shore. Though they are in had condition the value does not fall. The fishermen would think it a great hardship to Reason for. Soft.

close these months. In September and October the crabs are first class. In November they have just spawned, and the game is up. The soft crabs on this part of the coast are in May, June, July, and August. Proposes as a remedy that no person should take any crab below a certain size. Is not Gonas. sure whether this gauge should be 5 inches or 45 inches. WILLIAM RITCHIE (exemined by Mr. Walpole), a fisherman living at

Whitehills. Has been a fisherman for 20 years. Heard Mr. Finlay's evidence. Agrees that there are fewer crabe and lobsters than when he began fishing. Agrees with Mr. Finlay that the crahs are near the shore from May to Angust. and further out to sea in September and October. Thinks (with Mr. Finlay) Shedding shells, that the crahs cast their shells in June, July, and August. Thinks it would be a good thing to have a close season for crahs. Catching crabs in June, Close time. July, and August is like cutting green corn. The fishermen (old men) eatch them at that season as hat, and is afraid that closing these months would be an injury to those old men. If those months cannot be closed, it could be no use closing any months. Propuese, as an alternative, a gauge. Would let no crab he cought under 5 inches. Lobices are also decreasing. It is a rure train in the case of the control of erab season they go to other fish. When he began there were not a dozen

boots. There are new too many boots and too many fishermen. The price

CRABS.

LOBSTERS.

is so good that almost everyone takes to fishing. (By Mr. Young.) There might be some difficulty in enforcing a gauge. The

officers of the White Herring Fishery Board might possibly assest.

James Warson, of Whitehills (exercised by Mr. Young). A fisherman; is

shout 65 or 66 years of age. Has had long experience of the crab and lobster fisheries. Agrees with the statements of previous witnesses. Crabs and lobsters Decreese. mineres. Agrees with the attements of previous witnesses. Crabs and lobaters Devesce-have decreased very much in numbers, and increased much in price. Recollects earlies 36, etc. 4, dozen. They are now 56. feb. c. dozen. Thinks there is only Price, one way to improve the crab finiteries. Thinks there is only Price, one way to improve the crab finiteries. Thinks the close season for earlies flower than should commence on 1st November and end on 1st June. The crabs then are not in good condition. Lebsters are in season and out of season at every period

of the year. Would have a close season for them in May, June, and July. Close time. (By Mr. Walpole.) Closes November to June for crahs because they are out of condition. They are not, however, in order in June and July int in June and July old fightermen depend on them; would not like to hurt these fishermen. Closes May, June, and July for lobsters, because they come in to the recits then to shell. There is not so much demand for lobsters in those

months. JOHN WATT (expansed by Mr. Walpole), resides at Gardenstown. Has been a fisherman for every kind of fish for nearly 50 years. Has been in the Shetlands and Orkneys, and wherever he could find plenty. The lobsters are Decress. not one third so numerous either in the Moray Firth or in the Orkneys as they net one third so numerous either in the Moray Purto or in the Orkneys as any used to be. Now in the Orkneys they such to very reveloptures unless they go to very rough places. Goes to the Orkneys every year. Thinks the searcity is due to too many people flabling for them. It is impossible to stop flabramen things allogather; but thinks May, June, and July might be closed. The Glose stans, thinks allogather; but thinks May, June, and July might be closed. The Glose stans, the organization of the Company of the C lobsters then come in shore and are very easily taken. Agrees with Mr. Finlay Gauss. that there should be a gauge, but Mr. Fiolay's 7-inch gauge is tee large.

5 inches from tip of snout to the flap of tail is a fair lobster. If there is a gauge for crahe, it must apply to only cdible crabs.

(By Mr. Yasag.) Has fished in Loch Errikol. There used to be a very good lobster fisher; there; but it has very much fallen off. There are scarcely any Derrose. lobsters to be got except in very rough places. JAMES WATT, son of the preceding witness (exemined by Mr. Young). Has heard his father's evidence. Thicks that, at this sesson of the year, you will not Berried.

met 3 per cent, of herried lobsters. Out of 35 lobsters caught recently only one was berried. In July and August the lobsters are in had condition, and they will not have rees when they are in bad condition. No coast exposed to the Atlantic Weather. can be fished in the winter season, and the close season, June, July, and August, recommended by other witnesses, would prevent these fisheries being fished.
The Act, enforcing this close season, has never been enforced. Personally, he would have June to September, inclusive, cleared. Thinks a gauge for Gree thee. lebsters would be a good thing, but has never noted on this himself. Thinks a 7-inch gauge would be too large, and that there are many lohsters which do Gauge.
not grow to 7 inches; is speaking of the barrel gauge. Would have a 5-inch harrel gauge. Thinks it especially necessary to close August and September. Lobstera are then in poor condition, and casily caught. The weather is fine. Always gets crahs wheo fishing for lobsters, but never carried out crab fishing as a special pursuit. Would not have a close season for crabs. It would not be observed. Would never consent to a law that weald prevent fishermen from

taking crabs for hait (By Mr. Walpole.) Believes that a close season from June to September inclusive would out the fishermen at the back of the Lews, as the weather Weather. is so warm that the lobsters often do not go to market and the men get

empropriment in other ways.

ALEKANDER GARDEN TREGOLLS (ozersized by Mr. Plalpole). Lives at Garlenstown. Has been a figherman for 20 years, fishing for lobsters are dother fish. Has been a figherman for 20 years, fishing for lobsters are Decrease, other fish. Has been to the West Highlands for lobsters. The lobsters are Decrease, notice one for first with they were. Is in favour of a close reason for lobstere, Cree time, and the control of the control It should be June, July, August, and September, and thinks the fishermen on the Moray Firth would not object to such a close season. Is in favour of a gauge for lobstors. A whole lobster used to be 4h inches in the bornel and Gauge.

CRABS. use, and might be returned to the water

LOBSTERS. Decrease.

Close time.

Degresse.

λωμιπότα.

Bold.

Deeresse. Close time. Gange.

Reason for.

a fishterman for 45 years, and has had great experience in crab fishing. Crabs are not so plentiful as they were. Thinks that they have decreased both in Decrease. number and size. There are more men crah fishing now than there were

ANDREW WILSON (exemined by Mr. Young), resides at Macduff. Has been

9 inches long from snout to tail. Lobsters below that size are not of much

40 years ago. When he was young all the crabs were taken in rings near the shore. A ring is an iron ring filled with notting, and with three braces from the centre. There were no creels in his younger days. They were introduced about 20 years ago. Thinks that all lobsters below 4 inches in the barrel should be returned. The lobsters are now so scarce that he can hardly get

one. Has taken 20 in a night in olden times. The lobsters ere overfished. Would give the lobsters, not a jubilee of seven years, but a jubilee every seventh year. They require a good many crabe for bait. The very smallest are a useful bait. There are mussel scalps in the Moray Fortb. The mussels

are very dear. They go for the mussels themselves to Cremarty and other phases. When he first went for mussels he could get a cargo for 14. A caspo would ocet now 20. No crabs are taken between the Sch of October and the 10th of June. They are then out of condition. Would have no gauge for crabs, because it would prevent the small ones being used for batt.

James What (excessized by Mr. Walpole), a fisherman at Macduff. Has been fishing for crahs and other fish for 40 years. 40 years ago the crab fishing was only an "cora" or bye-job. Men would go at their leisure time with rings and take as many as they could. The trade is now pushed hard, and it would be impossible to get any crahs in rings now. The crabs have been overfished. Would approve very much of a jubilee for crabe every seventh or every fourth year. Crab fishing is one third of his living. Perhaps 20 others in Macduff are in the same case. Thinks the fishermen would be able to support themselves. He does not think that they would be tempted to

break the law. Could scarcely fish for crabe without detection. It is difficult to fish for crabe without being seen. Thinks the fishermen could get on with a year of inhiles, and that it would be a good thing for them. Thinks that at

this time of the year the roe begins to gather, and from the first of next month they do not fish them at all. They have already (10th October) stopped this

Is a mussel merchant. Has been so for 22 years. 22 years ago could buy Clyde mussels at 14s. a ton in the Clyde. The carriage by rail was 11, 16s.
This made the mussels about 21, 10s. a ton. In the Clyde new the mussels are 11, 5s., the carriage is reduced to shout 11, 1s. Crabs are very good bait. When there are few mussels, crabs are good substitutes for them George Paterson (exemined by Mr Young). Resides at Macduif. heen a fisherman for 39 years. Has heard preceding evidence. There is not the fourth part of the crahs there used to be. The decresse is due to over-fishing. A close time would do a great deal of good. The close time should commence 1st November and end on the lat June. The gauge for crahs is

42 inches. Below that size they are used for bait. Thinks that it would be a good plan to give the crah fishing a rest, one year in seven, or one year in four. be lobsters are very nearly cleared out of this part of the country altogether. Recollects the London smacks coming down, and thinks that a decrease began

JAMES WATSON (recelled). The Whitehills men fish six weeks later than

the Macduff men. They find crabs all through October; they are not so good towards November. There is a reef of rocks opposite Whitehills, which the crobs come to. Whitehills is only 25 miles from Marchiff.

PRESENT:

hundreds only. The third about 4,000, and the fourth year about 5,000. He

20

St. Combs, Peterhead, Tuesday, 10th October 1876.

with their over-fishing.

FRANK BUCKLAND, Esquire. ANDREW BUCHAN. Has fished for crobs for four years only. The first season, four years ago, he caught 3,368 crabs. In the second season a few

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fishes with creeks and rings. There are now more creeks and rings than there were four years ago. The crab merchants have instituted a gauge of 4 inches were rour years ago. A see crao nextenance ance measured a gauge or a menta-across the back; crabs under this gauge go two for one. He would prefer to put back into the water all crabs under 5 inches than give the merchants

CRABS

CRABS.

two for one. Would not think it oppressive to put back crabs under 5 inches. Gasqu. Begins to fash in April and May. In the winter the crabs retire into deep water, and seawed grows on their back. The close time should be from Migration. the lat of September to the lat of April. June is the best month for orabs, because the creeks will then stand heat. Goes on eatching ceals till July

and then goes to the herring fishery.

Lobstem are geiting scarce. Has heard of the lobsters being killed by the LOBSTERS. week of the vestel lades with tobacco. The tide about Ratinay Point runs north and south. The general size of lobaters about here is very large. Approves of the gauge of 42 inches in the larvel for lobaters; all under that size Gason.

should he returned to the water. Sells them by the pound. Gets from 8d. to 10d, per lb. for them.

Catches spawning bens all the year round. Would like to keep the Seasoning. hens for the market. His market for crabs and lobsters is Manchester and

WILLIAM BUGHAN. Fished for crabs last season. Began in July and fished on to the 2nd of August. The season about here closes itself about the Weather. lat of September. After that the creels will not stand on the ground on secount of rough weather. Agrees that it would be better to put back crabs that are sold two for one, than sell them. Lobsters under 41 inches in the Osser. that are sold two two me, man seit mem. Accourse unner 4g memor in two barrel should be put back. Bid not each over 60 lobsters last year; its year offere he caught about a bundred, and shout the same number previous year. The bottom of the sea shout here is all rock, except a Delt of years. The bottom of the sea shout here is all rock, except a Delt of years, and should a mile broad. The ground it too wide spread to allow the lobsters and should a mile broad. to be fished out. The lobsters about here are very large. Crabs are used for

nest in July, August, and Saphenber.

William Davidson, and Saphenber.

William Davidson, and Saphenber.

William Davidson, and series fisher. Would not keep any Tooley's which put them header rather than sell them two for Gaussian cone. He must know how of all since for bails, for taking cool. Munches uso no good. The cool country is needing the crafts when they are shedding their shells. Used for ball.

The bait he uses at that time is soft crabs. When fishing for crabs for saic, would have no objection to turn back the small ones, but when the cod some Uced for bail. in they are very necessary for bait. Mrs. Davidson gathers crube for bait. If not allowed to collect them in July and August it would be a great loss, because her husband and some other

old men must have the crabs for bait. Has tried other bait but it failed. At this season her husband must have crahs to catch the cod. Mussels would not do.

Inverallochy, Tuesday, 10th October 1876.

Pausener.

FRANK BUCKLAND, Esquire.

WILLIAM STRACHAN, fisherman. Throws back all crabs under 4 inches, Gaspe. because the curers will not buy them, or they go two for one. If these were thrown back, crabs would be more plentiful. Begins fishing the let of April; about the end of July he stops fishing and goes to the herring fishery. Between September and April he cannot fish. The only time he can fish is of April to the end of August. 30 years ago he used to fish for erabs for hait; he now fishes for them only for the market. He could sail only double the number if he could only get them. The coast in the neighbourhood

is rock and sand. Lobsters used to be plentiful 12 years ago; cannot say why they have fallen LOBSTERS.

off WILLIAM STEVENS. Has been fishing the last three seasons. The first year CBARS. he caught a great many crais; the second year they were not so plentiful; the third year he caught as many as he did the first year. For the last three years he Decrease.

OBABS.

whole crab. A great number of crahs run in size between 4 and 5 inches across the back : 5 inches is the standard at present; under that they go two for one. A good means of increasing the supply would he to throw hack all erabs under 5 inches; no close time is wanted here. He does not get a hetter price for a ran or spawning hen. He gets 1s. 2d. each for lobsters above 4 inches in the barrel; gets few lobsters below 4 inches in the barrel. ANDREW WHITE. Has been fishing for embs eight or nine years. The

fishing ground is about 6 miles, backwards and forwards, opposite the villages of inventibledy and Csimbulg. Caught few crabs last year. There were six bosts when he hegan, there are now 20 boats. There is little difference between the number of crabs caught last season and formerly, because there are now more fishers. The railway came here about nine years ago, and opened up a market for

LOBSTERS. Gaves.

the crabs. He begins fishing at the end of April and leaves off in July, and then goes away to the herrings. Thinks that the small crabs should be put Lobstere also under 4 inches in the barrel should he put back. Lobsters about here run rather lavee.

CRABS. Used for batt.

JAMES STEVENS, fisherman. If crabs under 5 inches were put back it would be a good thing. Small lobstere also should be put back. Crabs are used for halt in August and September for cod which appear at that season. Would not like to be deprived of crabs for hait. Would not object to return small crabs to the water when not required for bait. Thinks that 20 hoats in course of time might fish out the ground

patoning

ANDREW RITCHIE. Fisherman for 12 years. Thinks a gauge is necessary. All crabs below 4 inches should he put back, except when they are wanted for bait to catch cod in July, August, and September. Јонн Syrachan. Has been a fisherman for 40 years. Thinks it impossible to over-flah the ground. Crabs spawn far out at eas, where they cannot be readed. The adult and young crabs come imbore in the summer time. If the small erabs, that is helow 4 inches, were thrown back into the water, it

would tend to keep up the stock The crabs retire from the shore in the autumn. They come back in the spring. It would be unjust to deprive the fishermen of the use of them as buit. They east their chells in August and September. Would greatly object to any law

Used for buil.

about crabs if the law proposed made it illegal to use crabs for halt during the months of July, August, and September, because the crabs then are the lest bast for cod. If a law were made prohibiting the use of crabs for hait it would be broken, especially in the case of old people, who then would be obliged to break the law in order to get a living,

Fraserburgh, Tuesday, 10th October 1876.

PRESENT:

FRANK BUCKLAND, Esquire,

JAMES LOWDON, Fraserburgh. Has been a dealer in crabs and lobsters for

six years. Has bought crahs from Inversilochy, St. Combs, Cairnhulg, Frastrburgh, and Roschearty. Crabs have diminished, not so much in quantity as in size. The average size used to be 6 inches zeross the back; now it is as in size. This average size these to not binches zeroas the next; now it is about 3 inches. Attributes the decrease to over-chiling, and to flashing in July, August, and September. "Shell" erahs should not be taken at all in those months. They are taken for basir in that time. The supply of oud does not be about the same of the same than the same than the same that the same t Decrease.

Your time.

allowed from 1st April to 12th July. During the other months of the year erab fishing should not be allowed, as they are not in a marketable state. Would further suggest that means should be used to protect crabs during the whole year from idlers, who gather the small ones to a great extent from under tide-mark. Has no doubt that if these crabs were protected the erab fishing

on this coast would greatly improve.

All crabs under 5 mehes should go back into the water. Crabs do not grow Gaugeso large here as about Peterhead and in the South. A rule was made in the Firth of Forth that no crabs under 5 inches should be sold. Those under 5 lohater is 7 inches in length, and all under this size ought to he returned. Does not get so many "half" lobsters as "whole" lobsters. The price has

parts of the coast. Lobsters then are worth 9d. or 10d. to 1s. per th. In Price. January, February, and March, however, they fetch long prices In July, August, and September be gets ran or berried lobsters; these Spauniag. should be returned to the water. The spawn should not be killed. Merchants

give 5 per cent, more for a ran hea, than for a lobster without spawn. heas were put back, it would increase the number of lobsters. The herving fishing begins about the 10th July. Lobster fishing in this neighbourhood is of little consequence because the men cannot get a good price for them in the London market

LOUISON MEXEC.

WALTER NOBLE, fisherman at Frascrburgh. Has fished for orals and olbsisten neatly 30 years. Uses 30 oracle. Futh his nets down at the end of lobsisten neatly 30 years. Uses 30 oracle, a part of the parties and parties of the parti of a man's nail. Catches those in July and August in considerable quantities. A 5-inch crab would be three to four years old. Partans are very good bait. Used for bait. They are called "Pullers" when their shells are loose. "Meticks" is another They are called "Tulers" when their affects are loved. Mosses, and they make for soft cashs. There is plenty of hait at this time of the year (October). Crabs are easiest managed; they should not be used for bait. There are four beats fishing now for each and lobelters at Fraschungh. The ground is fished out by hunting them so much. The remedy is to put back all crabs that count two for one, and enact a gauge, fixing the minimum size at 5 inches. Gaype.

"Two-for-one" craha should also be preserved. Considerable destruction is caused by women and children estehing crabs and lobsters before they have come to maturity Lobsters have fallen off very much. They are too much fished in the sum- LOBSTERS. mer and winter. At Rosehearty there are five boats. Each boat carries 25 to 30 creeks. They work over the ground, which is 4 miles long and extends Decrease.

a quarter mile out to sea. Twenty to thirty years ago they used to catch 100, a quarter units out to sea. Tremmy to thirty yours ago they used to seath 100, 107, or 10 in the 20 beaust. They more get a close to believe 10° inches when the season of time to "gather up" again. The railway may be the original cause of scarcity,

by opening up new markets. ny opening Up How IMBERGES.
WILLIAM BUGUNA, Finand-burgh, Illes fished for enab and labelers for 200 cells.
years. Cales have greatly decreased. The sames is the thing of "600", Lower Labor and the control of the con

bait. The fishermen could get other bait. JOHN MELLIS, M.D. Has taken an interest in the fisheries. Suggests that Engineered of

the boats used for the crab and lobster fishery should be licensed and carry a fam. distinctive flag or mark, and be looked after by the coast guard. If they make

CRATIS.

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Decrease.

Gauge.
Saft.

LOBSTERS. any breach of the law, the fishermen should be brought before a Justice of the

Pence. Separate Deveras, fatherman, Dake Street, Fasterburgh, is 59 years of general facility in construct. Could have increasing because fishing it exceeds. Could have increased strickly in the last two years. World recommend that all idented the pencentral facility is a construct of the pencentral facility in the p

Close time. CBABS. Gauge.

Station Hotel, Inverness, Wednesday, 11th October 1876.

SPRNCER WALPOLE and ARCHIBALD YOUNG, Esquires.

WILLIAM CAMPBELL, 72, Castle Street, Inverness (examined by Mr. Walpole). Was for some time, beginning in 1869, traffic manager for the Great Northern and North Eastern Railways at Inverness. His district extended over all the Northern portions of Scotland from Perth to the Shetland Isles. Portree, Stornoway, and the outer Hebrides. Has known these districts for 40 years. In the above capacity his attention was drawn to the fish traffic, commencing with the Inverness white fish traffic (sprats); the trade was at first very small, and gradually developed till 800 to 1,000 barrels a day were sent to London. In 1869 he began to consign shall fish to London. These crabs and lobsters came from the West coast of Sutherland, 60 miles by land from Loch Inver and other places to Lairg, and thence per railway. They had not equal facilities for sending the fish from the other places. The quantity of crabs and lobsters is unlimited, but the expense of the land journey from Loch Inver to Lairg is a great barrier to the development of that traffic. His attention was directed to Loch Inver because there was a great demand for lobsters in London, and the Sutherland Railway did not go beyond Golspie. When the railway was extended to Helmsdale, the lobsters came from Wick and the West coast of Caithness-shire. The Dingwall and Skye line was opened in 1870, and had the effect of opening up a truffle from Stornoway and Portree. The lobsters from these places up a traine from Stornowsy and Pottee. The footers from these piaces had previously gone to Glasgow by steamer. The Post Office are now establishing a new route to Harris and the Outer Isles, vid Strome, which will have the effect of sending an unprecedented supply of lobsters to the London market. The fisherman in Benbecula alone are prepared to supply the London market with 500 dozen lobsters a week from the Atlantic coast. He contracted to do so with Forbes, Steart, & Co., but the lobsters did not live to reach Greenock. The lobsters went from Oban. There are at Greenock and Oban 40 or 50 men doing nothing but receiving lobsters from the Outer Hebrides. They take them out of the heavy boxes they arrive in, and repack them in light boxes for the railways. Believes that the fisheries in these places on the outer or Atlantic side are inexhaustible, and that, when facilities for the transit of the crabs and lobsters caught there are created, the great fishery will be not on the Minch, but on the Atlantic eide of these islands. The only good harbours in these islands, at present, are on the Mineh side. Is acquainted with Loch Erribol. That loch is not fished out; but given up owing to the length of the land carriage. The remoteness of the situation of that loch is alone interfering with the fishery. There are 40,000 people in the Long Island dependent on fishing, and they are worse off for communication than the Pacific Islanders. The Post Office are now

affording increased communication, which will open up these fisheries. The

Trade in.

Railways.

carriage of lobaters from Strome Ferry to London is 3t. I5s. to 4t. per ton. Is not afraid of the fisheries being exhausted. All that is required is transit facility. There are bads of crabs and lobsters on the Atlantic side which have never been touched by the hand of man, and will last for I,000 years. The traffic which he spoke of at Benbecula goes on to Barra Head. In the fishing season there is an increase of 15,000 to 20,000 people in the population of the Long Island

If the Atlantic fisheries were opened up no close time and no gauge would

CRABS.

CRABS.

be required for either cruhs or lobsters.

Anam Macnonald (engineed by Mr. Young). Is a pastry-cook in the High Street, Inverness. Used to deal largely in crahs and lobsters. Since 1842 he has been purchasing them for the purpose of sale. They are not nearly so plentiful now as they were in 1842; have fallen off more then one half. Used to get them from the falters at Nairn, who went over to Brozz, where the crabs were caught. They have not fallen off in size. Thinks the decrease is due to the fishermen killing the hen crobs when they Decrease, are berried. He refuses to take them personally when they are berried. The hen crah in spawn is full of water. The hen lobater in berry is in its best condition. On this coart, the hen crabs get out of condition about the middle Series for. of October. There is little meat in the shell then. Has heard that the fishermen use the embs for bait, but does not know it of his own knowledge-Mussels are the principal hait. Sand cels and herrings are used when they can

he got. Used to buy crabs as small as 4 inches, never below this. Has seen a very good 4-inch crab, but does not think they are so wholesome as the larger, Would return all crabs below 45 inches to the sea. The fishermen tell him Genev. Noticed results at traces control of the first that the crabs in these localities have been fished out. Thinks that there should be a close season for crabs from 1st November to 1st March. A Close time. 4) inch gauge, combined with a close time in those months, would be a great benefit to the ceab fisheries.

The lobaters have fallen off equally with the erabs. Has to send now to LORSTEINS.
Wisk or Kirkwall for his lobaters. They go from Wisk to Abserdeta per persecution of the persecution steamer, and theme here by rail. The prec of botters and cauch has doubted since 1842. This is don boilt to the increased demand and the state of the state 1842 and the state of the first of the state of the first of the state of the botters. The fisherment are not aware of it. The belotters are in excellent condition in that does encour-June, July and Alqueut.

(By Mr. Waipole.) Crahs are of no use in May : better in June, and go on

(By Mr. Walpafe). Crals see of so use in May; better in June, and go on Megalonia pletter. Not good enough to elsein in June, sany be start in July, Sensor July, Largacking of the famile crais. Then be selected in July, Sensor July, Largacking of the famile crais. Then the liberary, Would not like to say they were in good order to March and July. The principal demand here is for fermine. There would be no difficulty in making the close manon applicable to any famile. The makine are not in good order in November, they got in good order about Christmas.

Royal Hotel, Thurso, Friday, 13th October 1876. PRESENT:

ARCHINALD YOUNG, Esquire.

WILLIAM THOMSON, residing in Thurso. Has been a crab and lobster fisherman for 35 years. There are a good many crabs all about the court from Lock Erribol to Dunesnsby Head; but not a fourth of the number are now Decrease. taken that were got 35 years ago. There has been a decrease also in size. Fished with rings when he was first a fisherman; but about 15 years ago the fishermon gave up the rings and used crab-pots instead. These are much more deadly than the rings.

CRABS.
Decrease.

The number of beats engaged in each fishing is four times greater than 50 years ago. For more onche would be got with the interested number 50 years ago. For more each so would be got with the interested number fourth part of the season of

Closs time.

LOBSTERS.

Decrease.

under 5 inches to the sac. Crabs are in the best condition just now (Octobarren Next mouth they begin to fall off and get watery. There is searcely any the Next mouth they begin to fall off and get watery. There is searcely and I say the search of the search of the search of a close time for exhal, from I say the search of the search of the search of the search of the Lobettes are getting spaces. Four times as many here taken 35 years ago as are taken now, yet there are now four times as many host failing. 36 and 3d was the price of a multi-dable lobetter, now Is &C is all Lobetters are price of a multi-dable lobetter, now Is &C is

Пристіпу. Сапря. as are taken now, yet there are now four times as many house finding. So years ago 34d, and 35d, was the price of a maghetable bubber; now 16, 6d, is pild. Lobaten see now sent south by train, London is the child market, the market. Would just back all loberts under sinches in the beard. Never hand of any Act of Poliment fixing a close time for loberts. They are fixed for lare the vaboley are result. Thinks that there should be a close time fixed from the vaboley are result. Thinks that there should be a close time

Cless time.

Remembers annels coming down from London more than 50 years say. These works have now of three mades. It may foot the wides of the found to blotters. More than 10,000 were the found to blotters. More than 10,000 were taken from it in a single assemp, but onels to the ever-fielding to ourly them assemble, the fulley faires and it along the most because have you made bein out. The ever-fielding began with those much made to the same than the same t

which is a considerable to the constraint of the

CRABS.

Gauge.

WittAss Devisas, Revol Coatle, Timos. Has hot a long and or network coquisitions with the fidelities on this pair of the costs. Used to get large numbers of folderies 30 years ago. Both cruids and holsters have now from the improved application of the large and the increased number of bosis, the folderiman now should get rivies as many orden and lobsters as they did the folderiman now should get rivies as many orden and lobsters as they did the folderiman now should get rivies as many orden and lobsters as they did the folderiman now should get rivies as many orden and lobsters as they did the folderim to the folderiman orderiman and the folderiman of the density has a going and all enters, made of those should be arrived in the folderiman works. It is a likeling the prose that has prive and only the property of nakes them to provide the folderiman orderiman orderiman and the state of the contraction of the last of the folderiman orderiman or

Season for.

no close time for eaches; a S-time, gauge would be entirelism. The gauge would be required to be considered with a provision against borying, selling on latting in positionized in the purposes of and any quad- are holder under the prescribed size. I provide the proposes of the say of the provision of the proposes of the say of the provision of

fishermen can now fish with the creeks where they could not fish with the

LOBSTERS,

rings. They can fish in much deeper water. It is only the increased prices that keep up the fishings. A man could not now make half wages at the old prices. Locks Laxford and Erribol and the Kyles of Tongue are almost fished out. They would not now yield anything like half of what they used to yield. Never heard of the Act 9 Geo. II. c. 33, s. 4, ensoting a close time for lobstere from 1st June to 1st September. It is neither known nor observed here. The close months in that Act would he very suitable for lobsters in this country for the lobsters are then out of condition. But the Norwegian lobsters are then in first-rate condition, at least up to the 10th August. Would have no close time for lohsters, but a 4½-inch barrel gauge. Would allow berried hene Gauge, to be taken all the year round. Berried hens are the most valuable lohsters in Berried. to be taken an two plan round. Determ near are two most of waterner before the market. There would be plenty left for stock. The gauge would provide against killing them too young. Crabs are never used as halt for the long lines here, but limpets chiefly, and sometimes mussels.

TOBSARSe

LOBSTERS.

The Town Hall, Wick, Friday, 13th October 1876.

PORSENT:

FRANK BUCKLAND and SPRNGER WALFOLK, Esquires.

DONALD THOMSON (caracised by Mr. Backland). Lives at Dunnet Head Has been a fisherman for 35 years, from the Ord of Caithness to Cape Wrath. This which is last few years shadow with range, fables now with crocle. The supply of orabs has fallen off few more than one half in number. They have Derrease, not fallen off in size. The recreage size is 7 inches, but there are some as small are a 3 inches. The small crobs are mostly hove overboard, because they are of and a lottles. The small each see mostly how overboard, because they are of no value. They are not for from any market to small their eight. They are of government of the state of the sta

Used to have 40 rings. The size of loboters is much the same. The Decrease. lowest size is 8 inches from the tip of the mont to the tail. They don't sall any helow that size. The dorrease is attributable to the creef fiching. The creeks are fishing every day and night all the year round. This should not be allowed. It has been going on during the last seven years. This was now with crost only in the Pentland Frith shout 6 miles. The creals flet in water from 10 to 20 fathoms deep. The fish go away from the land to bilberrate. Thinks Migration, that the lobaters are over-fished. Is in favour of a close season for lobaters. Close time. that the lobsters are over-fished. Is in favour of a close seaton for lobsters. Closs time. Lobeters should only be fished from the 1st March to the 16th June. The rest of the year should be entirely closed. The lobsters during the rest of the year and find the entirely closed. The lobsters during the rest of the year are fail of water and until for human food. The lobsters generally spaws gasweing, in July, August, and September. Then finds the Ran hear. Finds a few loss of the state of the st Ran been at other periods of the year, but not many. Thinks the Ran heas should always he returned. The fishermen get no more for the Ran heas than the other lohaters. Sella the lohatere to an agent. In cold weather the lohater will live eight days out of water. They are packed in seaweed. The lohaters are measured from the tip of the horn to the end of the tail. Thinks all lobsters under S inches should be returned to the water. Never fishes lobsters in harvest Gones.

nings o inches commu be reasoned to tope water. Never gates locaters in increed Gaussi-because they are not good. Has found the card kins in creed in June and in May. Doesn't know when the young lobsters are hatched out. Has seen lobsters as candl as 2 inches. Thinks that heavy gates of wind destroy the Water. young lobsters. Has no suggestion to make except the close ceason and the (By Mr. Walpole.) There are about 10 boats on the mainland fishing for Basis.

there are occasional hoats from the coast between Duncansby Head and Wick. 35 years ago there were 20 hosts from the mainland, and about the same number from Stroms. 35 years ago all these hoats had rings and no creeks.

LOBSTERS. Mioration.

Each host now carries 30 to 40 creels: he (witness) carries 60. The creels are generally phased about 22 yards from each other. The rings were not half that distance from each other. The depest water in which the rings could he fished was 10 fathons. The creels are generally fished from 15 to 20 fathons. As the weather gets warm the lobsters are coming into shoul water. They generally draw in to land on the 1st March, and remain in shoal water till middle of July. Thinks they leave the land in July, return in the harvest time; and in October they again draw off into deep water. So long as rings were the only instruments in use it was impossible to fish for lobsters from October to March, and therefore during six months there was practically a close time. Attributes decrease to invention of creeks. Would be glad to see a law made that it should be illegal to use creels. Does not know what other fishermen would say to such a law, hut knows that all fishermen think that creels are the ruin of the fishing. Would be in favour hoth of a close season and prohibition of creels, but prohibition of creels would practically secure the close season. The creeks are destructive in deep water where there are no weeds. In shallow water the weeds close the doors of the creeks. There

would not be so much harm in using the creele in the summer months. Thirty-five years ago lobsters were 4d. each. Smacks came down from Thirty-five years ago lebatest were 4d. each. Smalles came down from London and carried them away. They were a good few years at 4d. Abaut 20 years ago they heame 6d. They remained 6d, for four or five years. They then rose per head 2c, each in February and March, and Ls, in April and May. It is two years ago since the ruitway was made. Never went sloster fishing to the Orinneys nor the Outer Hehrides. Can't carry creeks not, and as of obliged to stay at home.

(By Mr. Buckland.) Is in favour of probibiting creeks in the winter months and harvest time. But the fishermen might rehel against this. Would himself prefer that creeks should be prohibited altogether. Has heard of 9 Geo. II. c. 33 instituting a close season for lobsters, but never knew it observed. Cannot say who should carry out the law. There are no constguard here. The officers of the White Herring Board might carry the law out.

JOHN BAIN (examined by Mr. Walpole). Lives at Keiss, seven miles north of this. Has been a fisherman for 13 years. Has been occasionally fishing for lobsters. Begins lobster fishing shout March, and goes to the herrings in the middle of May. The herring fishing continues till the 6th September. After that goes out line fishing for haddeck and other fish. After that gots herring for hait. Herring is the principal hait. Never used crabs for bait. 13 years ago there were four boats lobser fishing between Denocanshy Head and Keiss, now there are five hoats. 13 years ago fished principally with rings, now almost entirely with creeks. Each boat carries different numbers of creeks. Con work 40 creeds at home, 20 to 30 creeds when they go away. There is not one lobster now on the cotet, for six 13 years ago. The price of lobsters 13 years ago ranged from 16d, to 4s. The price is much the same, if, anything leas, now. Can't account for the decrease of price with the decrease of fish. It may be due to the Norway lohater. Would be glad to see a close time for lohaters. The close season should begin shout the middle of June, it should not end before the end of January. There are plenty of boats lobeter fishing these months, and they ought to be stopped. He does not try for lobsters in those months himself because the lobsters are not good and the price is small.

Close News

Thinks a close season of this kind would restore the fishery. Has heard Mr. Thomson's evidence about creeks. Creeks are no more destruc-tive than rings. Gets very few small lobsters. Was one year in Orkney, five years ago. Didn't find many lobsters, the weather was unfavourable.

This was in January.

(By Mr. Buckland.) Flounders are the principal hait for lobsters. Lobstere Boit for. will, but crabs will not, take a stinking bait. Thinks Ran hens should be put back, but they are very valuable. The fishermen might be discontented

with a close season, but it would be a benefit to them. FINLAY McLEAN (exumined by Mr. Buckland). Has been fishing for crabs Decrease.

and lobsters on both sides of the Monay Frith and at the Land's End for 40 years. Lobsters have fallen off rety much. Used 40 years ago to average 20 to 25 lobsters in a night. Wouldn't now perhape catch seven. In four months caught 1,000 lobsters for Mr.Barnes. Does not know whether he could now catch 400 in the same time. Thinks the decrease is due to their being killed,

hig and little, all the year round, Has not fished for lobsters for four vests. the fishing is so bad. He fishes now from Sinclair's Bay to Wick Bay. Fishes now for crabs. Has occasionally sent them to Aberdeen. Sometimes Fishes now for crabs. Has occasionally sent them to Aberdeen. Sometimes sells them here. They have not decreased. They are principally used for buit, Used for buil. and from the month of April to the end of October they are important as built for cod, haddock, and coal fish. There are no mussels nearer than the Dorneck Firth. A great many crabs are broken up for batis in the course of the year. Has had from 70 to 80 crabs in each of four creeks made for the purpose of catching them. The greater part of these crabs were used as food, the rest for buit. It would be a great hardship to prevent the crabs being used for hait. There are six families in one village in Sinclair's Bay who live

OWAES.

entirely by using crais for hait. Can't get herrings for hait in October Thinks a close season for lobsters would be very good, but it should be in LOBSTERS. the spawning season. Lohstens spawn all the year round. The greater number of lobsters are spawning between June and September. These four Spawning.

number of Iolisters are spowring between June and September. These four Aparenta-ments should be cloud. The close season should apply both to Cornwall flow time, and Scotland. The Wick fishermen do not use crubs for bid. (By Mr. Walpole). The I/00 libers caught in four months for Mr. Burner (By Mr. Walpole). The I/00 libers caught in four months for Mr. Burner were taken in Bantfahlim between York Knockle and Perga Indi thinks been on that ground for 39 years. Mr. Burner was the Capacity of the Control of the Capacity Lord for he couldn's get 1,000 lobsters there now. Has not been to the Land's End for 32 years. Was there in February and March. The weather wasn't too had to fish some nights. Doesn't know whether stopping fishing in summer months in Cornwall and the Atlantic side of the Lews would be tantamount to stopping fishing altogether. Is over threescore years old and has not prosecuted blosher fishing for three or four years. Hearit given up lotter fishing Derrous. hearing of the polyther fishing Derrous hearing of his age, but hecause the lokaters are too fire.

(By Mr. Bucklond). The best sesson for lobsters, here is from January to Sessos for.

June. From June to September they are watery and had DAVID GUNN (exemined by Mr. Walpole). Is a fish merchant in Wick. Has been in husiness for 35 or 40 years. Buys lobsters from fishermen and sends then away. Thirty-five years ago had dealing with about four beats. Lobsters were 3½6 to 4d. They were sent away by steamer to London and Leith. Lot Price a great many lobsters in the transit in the hot weather. In the cold weather they carried easily. There was a good deal of loss in the transit in the summer may serime ensury. There was a good unto a ross in the transit in the summer month. The price is usually low in the summer months. Attribute this (1) to increased supply in Lendon markets from other places, and (2) to diffuse of carrying the locates in hot wester. In 1855 the price of between was 6.4 in 1867, 5d. They remined at 6d till short 1855, and then pushes 1851. After the and 14. 6d. There was no failing of of places and units 1851. After 1851 there was an increased competition for lobsters in the Wick market. This led to increased fishing and increased price. The increase of price was first due not to decreased supply but increased demand. From about 1860 there has been a decrease in the supply. Attributes this decreased supply to the over-fishing consequent on the increased demand after 1851. Thinks the proper remedy is to do away with the creeks. Is not sure that the lobsters are Creek. not becoming accustomed to creek and won't get into them. Thinks that the men in shallow water might eatch more lobsters in rings than in creeks. The crest is not so much concealed with the weed as the ring. The diameter of the ring is 21 inches. The creek is 2 to 3 feet by 16 inches deep. Wishes to resume ring fishing (1) because he considers it more efficient in shallow water, and (2) because it would be a protection to lobsters in deep water. If rings only were used, would be only possible to catch lobsters from lat March to 16th June. There is a great demand for lobsters in the London market in January, February, and March. Could get some lobsters in rings in these months

Doesn't deal in crabs. Thinks they are falling off very much. The people CRABS used to bring them into the town by carboads, now there are hardly any. The district in which they are caught, Sinclair's Bay, is narrow, they are Decrease, over-fished and so falling off. Would give lobsters and crabs the same closs Close time. season, June, July, and August. During the rest of the year lobsters and

crabs might both be taken. (By Mr. Bucklend.) Welled hosts were given up because they didn't pay. There was less loss by the steamer than by welled boats. Some of the fisher-

LOESTERS. Ganas

men would shject to a close sesson in June, July, and August. This used to be the close Jesson. The merebants would not formerly take them after the 15th June. Now they take them at any time of the year. Doesn't think that the lobter flashery will, endirely be destroyed without fresh legislation, but it will decrease very much. Is in favour of a standard of 41 inches in the barrel, This is now the standard for a full fish. There are parts of the coast (near Hoy) where the lohsters are very small. They are large at other places (Dunnet for instance). Has seen 1,000 lobsters in April, and not two lohsters over 4½ inches. These were from the north coast of Hoy Island. The lobsters are always small there. It may be a small breed. Got 2s. 6d. each in London for those small lobsters. Eight days afterwards only got 4d. apiece in London for lohsters. Doesn't know who could carry out close sesson unless a party was appointed for the purpose.

Degrease.

ALEXANDER MYVONELL, chief constable, Cuithness-shire (exemined by Mr. Buckload). Is acquainted with crabs and lobsters from seeing them in market. Crab fishing is not proscented to the south of Wick. North of Wick and on the shores of the Pentland Frith the lobster fishery is of considerable importance. There is no doubt that the supply of lobsters has been falling off. This is due to the increased price and consequent over-fishing. Would propose, as a remedy, to limit the fishing season, and to prevent the capture of small immature fish. Is not sufficiently acquainted with the subject to say what the close season should be, or what the gauge should be. No Act like the 9 Geo. II. c. 33 has ever been enforced in the county of Caithness. The people are not aware of it. Thinks that there would he no difficulty in earrying out the law of close season. The fishermen are a law-ahiding people, and would take law or cases season. It is manufactured as a season of the case of the season of the case of the officers, it could be enforced by the police. After May the whole population is absorbed by the herving fishery, and none but old men are left. They return from the Lews in the middle of June, but are so hary in preparing for the east coast fishing that all other fishing is disregarded, till September, when they commence haddock fishing. The lobsters therefore have a very good time

(By Mr. Walgole.) The duties of the police would not be materially increased by their employment on these services. Would perhaps have to apply for one additional man. Does not think that it would be fair to tax the agricultural ratepayers to protect fisheries, and is aware of no anthority who could nay for it unless the Fishery Board undertook it. Believes the Fishery Board to be self-supporting. DONALD THOMSON (reculled). The lobsters will get out of the note when

daylight begins. It is easier for them to get in than out. Believes that the lobsters are getting acquainted with the creel. They go out and in of the creel very quielt. When the creels are in one place the lobsters get accustomed Get out of oreels. to them, and they bare to shift the creels.

Derrysse.

JOHN MACKER, editor of the "Northern Ensign" (exceeded by Mr. Walpole). Has lived 33 years in Wick; has interested himself a good deal in the fisheries. Concurs with Mr. Thomson's evidence almost entirely. There has been a very great decrease in supply of lobsters on the coast, and this is due to the overgreat decrease in supply of the remodies which Mr. Thomson proposes. These are the prohibition of creels, the close sesson, and a gauge. Thinks a close season would be the most comprehensive remedy. Thinks that the creel is orrainly a more efficient engine than the ring, and that a close season would be better and cover the difficulty. Thinks that Parliament should be guided by the evidence of the fishermen as to what the close season should be. Thinks it necessary to have a gauge for lohsters. Thinks that the capture of the 1,000 small lohsters on the north-west coast of Hoy was a wholly exceptional event,

CRARS. Decrease.

and ought not to regulate legislation. The existence of crabs in the locality is purely nominal; they have fallen off very much, and are a great searcity in the market. There were a great many crabs 20 years ago. The locality is not unsuited to crabs, but something has

interfered with their production; this no doubt is over-fishing. Proposes for crabs the same remedies as Mr. Gunn anggests. The herring fishers are not usually the crab and lobster fishers. None of the Dunnet men go to the erab and lobster fishing. The attraction of the herrings does not afford a sort of natural close season to the crabs and lohsters. The lobster fishers are to a great extent dependent on the fishing. Thinks that the benefit from the close season would compensate them

creasing, so the temporary loss must in any case occur.

(By Mr. Buckland.) The fishermen in the course of a few months or so
would be so much benefited that they might stand the temporary loss. Would allow the use of crabs for bait. They are only used to a limited extent. Limpets are largely used. It is not necessary in the district to have any law about

use of crabs for bait. Thinks that any law that is made should be enforced by fithery officers. Sufficers are two at Wick, four in the fishing season, and they could easily carry test out the law. The fishery officers are stationed—two at Wick, one 13 mules.

south at Lybster, one at Helmsdale 20 miles further on, one at Cromarty, one at Burghead, one at Buckie, one at Macduff, one at Frazerburgh, one at Peterhead. The nearest officer north of Wick is at St. Margaret's Hope at Orkney; there is one at Shotland, one at Stornoway. The fishery officers are constantly travelling about the cosst, and could then manage to enforce the

close season. The Wick officer once or twice a year makes a circuit of the coast from Wick to Cape Wrath. WILLIAM REIN, commission agent, Wick (examined by Mr. Buckland). Born 60 years ago, has studied natural history for a long time, has paid special

LOBSTERS.

attention to the natural history of the lobster. The eggs of the lobster are Bossening of formed inside, they are then in a very minute form, and latterly they are extruded by two canale in the hody of the fish and are made to adhere under Believes that they are not all extraded at the same time. There are from 24,000 to 30,000 eggs in a lohster. Believes each hen lobster epawns once a year. Most of the berned hens are found from April to June. From March to July never partook of a ben without coral in or outside of her. Thinks the hen carries her eggs for a very long time, because in the same fish he finds the minute coral inside and the berries catalde. These are gradually extruded just as the hen gradually laysher eggs. Thinks lobesters are in the best condition before the eggs are extruded, but the cooks value them when they are berried. Believes that the young when they are hatched out are not Young of protected by their mother. Thinks that the decrease le not due to storms, which always cocurred, but to over-fishing. Is opposed to a close season because lobuters are in the best condition when they are in roc. A close season could never be carried out. In Orkney, where he has lived for 30 years, there are 60 islands, 30,000 people, 1 fishery officer, and 3 police, and the law of close season could not be carried out. The same thing applies to the Western

Highlands. All lobsters under 8 to 9 inches long, or 45 inches in the barrel, Gauge should be put back. This law could be enforced in the markets. The law of close season could also be enforced in the markets, and believes that any law to be made must be enforced in the markets. There would be a difficulty about the close season because the lobsters might arrive from other places. If there is a close season it must be a universal close season, and it would be necessary to stop importation in those months. The lobeter fishery at Wick was, but is not now, an important industry. They have fallen off in numbers, and there are other flabings more profitable, e.g., herrings in summer, haddeds in autumn, ood and herringt in winter. The enterment of the gauge would to a limited extent remedy the decrease, but not entirely.

Believes the fertilisation of the ova in the lobster is effected in the ordinary way. The lobeter is called zoes in its early shape. Sees a French hook says they shed their shell four times a year. Has no opinion whether they shed their shell more than once a year. Crabs are not of great importance in Wick commercially

Staxigo is the first village north from Wick; there are only a few boats for orabs and lobsters there. Keiss is the next place where erab and lobster fishing is carried on, and Ackergill is the next village. Freswick is the next to Ackergoll; there is no important cmb and lobster fishery there, and Johno'Grost's is the next place, and is an important fishing station.

40353.

Huna, John O'Great's, Saturday, 14th October 1876. PRESENT:

FRANK BUCKLAND, Esquire. CRABS

DONALD MOWAT, Duncansby. Has been fishing for 35 years. There are planty of orabs in the neighbourhood. There is no difference that he recommended from the foremer years. These are planty of small crabs measuring 5 or 6 inches. Does not take the smallest ones, small has been considered with the planty of the smallest ones, small has been considered to provide a line of the smallest ones, small has been considered to provide a line of the smallest ones, small has been considered to the smallest ones. the neighbourhood. Would be glad to have a sale for them. Has sent lobsters to Wick. Thinks that when crabs are so small as to be counted two for one, by the Billingsgate rule, they should be returned to the water. This would include all crabs under δ inches. No close time is necessary as there

LOBSTERS.

would nichtide all crace innore o incepe. No clock time is necessary as times are plenty of crabs. They are cought summer and whiter. Alexamen Mowat. Thirty years a fisherman. Some years crabs are plentiful and in others searce, according to the season. None less than 5 inches should be taken. Lobsters have fallen cff. They are not over-flaind, and a close season is unnecessary. None should be taken, whether made or female, under 8 inches in length, measuring from the tip of the nose to the

ORABS.

point of the tail. THOMAS DUNNEY. Five inches should be the gauge for crabs. The take depends on the season. More used to be caught 40 or 50 years ago than at the present time. There is a scarcity now, but some years more are caught than others.

DONALD MOWAT (recalled). The falling off in lobsters is caused by DONAIN MOVAY (research). The names of in lobsters is caused by their being hillful in the where comothe. What is caught in the where caused he had in the spring. The variety lobsters was exactly all 1,014. There are flar followers being the company of the compa

Ganas.

on each side of Duncansby. There are planty of fishers in Stroma. They fish for crabs and lobsters all the year except in October and November, when they go out for cod. There

should be a close time for crabs and lobsters from December 1st to the end of February. GILBERT LAIRN, Duncansby. Has been fishing here all his life. Crake

Gauge. Spannino.

Class filts.

are plentiful, but less so than formerly. Sometimes a good number can be caught. The average size is from 5 to 6 inches across the back, sometimes they are smaller. Cannot tell the reason. Would agree to a 5-incb gauge. Crabs spawn about lat April, and cast their shells about May and June. Has been fishing for lobsters 15 years. They are fewer than formerly. Thinks the scentily is caused by storms. The "coarse" weather has been worse than naul during the last four or five years. The storms have distroyed many LORSVERS. anawaing places. Lobsters are more fished than they were, 10 or 12 years ago.

Олион.

Some lobsters caught are very small. They range from 4 or 5 to 10 inches. All lobsters under 8 inches, and all partans under 5, should be returned.

John Dunner, aged 75 years. Has been 50 years a lobster fisher. shed with rings, and has always done so. Saw the first creed about 10 years ago. Has had 60 bests fishing along the Pentland Firth between Orkney and Caithness, and even in Shetland bad five boats in one season, but did not do well with them, having only had 150 lobsters in two months. They were large, but source. In Shetland has found large whelks attached to the lobsters, and

Exemies of.

has thought they destroyed the lobsters by sucking the life out of them.

Lobsters are fewer now. Eight or nine years ago caught 1,000 to 1,500 in three months, but now only 300 to 400, hringing is, each, while formerly they were 3d, to 4d. Smacks used to call for the lobsters and take them to Wick. Formerly a vessel beginning on the west coust at Ullapool or Rumore and ending at Scrabster would take off 9,000 or 10,000. The smack used to pay 3d, to 7d, each for large lobsters; now the same lobsters would be 1s, to ls. 6d. each. The rule of the smack-owners was that all lobsters under S inches

Doeswood.

should count two for one. The cause of the decrease is the invention of creeks, which catch the lobsters in winter, so that they cannot be got in spring. If he were a king, he would make an Act of Parliament putting an end to creeks altogether in the winter, and would have a close time for creeks, allowing them to fish only from March to the 9th July, when the herring fishing begins; all lobsters of less than S inches, and crube less than 5, should be put back into

LOBSTERS.

Would allow no creels at all to fish in Documber, January, and February. Gioscitima. Good lobsters might he caught after July 16th, but the fishermen are all then

gone to the herring fishery. HUGH MACKENSIE, landlord of John O'Groat's Hotel. Has known the place for 10 years. Knows all the fishermen at Huna and Stroma, and Yells. There are about 150 small boats from Duncasshy Head to Dunnet Head, inrance are about 100 small boats from Duncanity Head to Dunnet Head, in-cluding Storm, shahing for orthe and botters. Late year botters filled in an Derross. And this year they have increased. The filterment blance he not seen that the part of the state of the stat months, and it would be unfair to them to have the loss of three months. One crew there has enught 4l, to 5l, worth of lobsters in one week in the winter; and has not been able to get out again to the fishery for a month.

Thrumster, Saturday, 14th October 1876.

PRESENT FRANK BUCKLAND, Esquire.

ANDREW COMES, fisherman, Surciet. Knows the coast of Casthness. There are 56 boats on the Sarciet estate. None of them go for crabs and lobsters, but fish for haddeck, end, &c. Has seen boats coming from Staxing carrying creds. They come in the aummer—in May and June. There are plenty of crabs and lonsters in the Voes between Wick and Sarclet. Catches parties with the clip among the rocks; uses them as food for himself and family. Begins herring fishing at the Lews on the 19th May, and returns on July 5th. Then goes to the herring fishery till the 10th September, and after that to the haddock fishing. Has seen partons 8 inches across the back; the smallest are 3 inches. Uses limpets for batt for white fish. There are no musel scalps had, in the neighbourhood. It would be a very given advantage to establish mussel scalps if possible, but the storms would not allow the mussels to remain. The fishermen here are also farmers, and only fish for herring or cod, having no time for the crab and lobster fishery. It pays better to look after the herrings. Valueless. Twelve years ago Captain Bentley Innes brought some lobster pots from Yorkshire, and gave them to some of the fishermen; these fishermen got many good lobsters in the Voes. Has seen lobsters travelling about in the Voes, It is not worth his while to fish for them. The people shout here are half furners and half fishermen, and will not settend to the ornb and lobster fishery.

Thinks all crabs under 5 inches and all lobsters under 8 inches should be Gonce. resurrent by the 60.

Simple. This been a fabor for 30 years. Has possibly Herries fabor, and the blacked, strong, and cal. Nover fitted the related and Lokstern. Does not think it worth his white. Boots consumes come from Adergall.

Does not think it worth his white. Boots consumes come from Adergall.

Herries are the strong the strong of the strong the strong

Has never seen the skins or shells of crabs or lobsters thrown up CAPTAIN BENTLEY INNER. Is owner of Sarclet. Has heard the foregoing

evidence, and corroborates the statement as to the experiment with the lobster pots 12 years ago. Knows that crabs and lobsters are in the Voes, but the

Herrisg fakery fishers are too well off to prosecute the fishery. They can make more money by other means, such as herring, cod, and haddock fishing. Would have no objection to the enforcement of a gauge, and agrees that partons under 5 inches and all lobsters under 8 inches should be returned to the water. Thinks it would be desirable to have a close time for lobsters according to the individual locality. Caithness is a month later than other counties, both with harvest and game, and probably also fish.

Ackergill, Saturday, 14th October 1876.

PRESENT:

FRANK BUCKLAND, Esquire. LOBSTERS. CATHERINE MORRISON. Crabs and lobsters are sent away on Wednesdaya

and Thursdays to Wick to suit the steamers going to Aberdeen. The price has Sien of not increased. There are two sizes of lobsters, the largest 10 inches, the smallest 8 inches; this is the average eite. Thinks that before the milway osme crahs and lobsters were more plentiful. Remembers large lobsters being sold here for 3d or 4d each

W. Ruto, fish curer, living at Keiss. Lobsters have fallen off. There are two hoats fishing-three men in each hoat. There are 30 creels in each boat, They begin fishing in February, and leave off in May. The space of ground for the fishermen where crabs and lobsters are found is small, and they have

very nearly ceased fishing for crahs and lobsters. JAMES BAIN. Crabe are no object to the fishermen here. Would not Close time. chiect to a gauge of 8 inches for lobsters. Would have a close time from August 1st to February 1st. Goes to the herring fishery when not engaged

be from the lat of August to lat of February.

with the lobsters. Sends his lobsters away by steamer. JAMES MOWAT, fish curer. Agrees with the 5-inch gauge for orshs, and an 5-inch gauge for lobsters. Thinks there should be a close time to allow the lobsters to multiply. The ground is over-fished. The close time should

The Castle Hotel, Kirkwall, Monday, 16th October 1876.

PRESENT: SPENCER WALPOLE and ARCHIBALD YOUNG, Esquires.

Robert Brough (exemined by Mr. Welpole). A fish-merchant at Kirkwall :

has been in husiness between 30 and 30 years. Has been haying lohaters all this time from the fishermen and sending them to London and other parts. There were steamers 20 or 30 years ago by which the lobsters were sent away. They go now by steamer to Aberdsen and thence by rail. His recollection does not go back to the period when there were no steamers. When he commenced husiness, lobsters were 7d. to 8d. each, the price now is 14d. to 18d. The price has risen over 100 per cent. Thinks that lobsters are scarcer, and The price has risen over 100 per cent. Traints time content are structure, see that the seasety, due to over thining, has led to an increased price. Does not think that the increased demand has produced a rise in price. When he bugan husiness took no lobsters under 9 inches. Two men, 20 to 30 years ago, would take 1,200 to 1,400 lobsters in a fishing teason. Now they would not get the price. We have seen the 6-places and 10 these 900 and 20 years ago. The 6-places are under the second price and the second price and the second price are the second price and the second price and the second price are the second pr above 200 lohsters. 20 or 30 years ago the fishermen used rings, now they above 200 lobsters. 20 or of years ago the name localities, but the creeks use both creeks and rings. The men fish in the same localities, but the creeks enable them to fish in deeper water. Believes that there is only one lobiser now where there were six twenty years ago. Thinks that this searcity is due to over-fishing. The decrease has been gradual. Attributes it to over-fishing and fishing at the wrong period of the year. By over-fishing means there are too many fishermen. The principal grounds are Westray, Paps Westray, Edsy (a fine fishing place), Sanday, North Ronaldsay, Stronsay, Rowsay, Scape,

Games.

Close time.

Degreese.

LOBSTERS.

and Ham Sound. The lobsters are pretty universal all round the islands. Thinks that July, August, September, and October are bad months for fishing annax snal July, August, September, and October are had months for inching lobeter. During these months constantly gets confl lobeters. The fishermen don't return the soft lobuters; it would be practicable to return them, and sent in would be a good thing to make it illegal to buy or cell them. The soft lobuters when they are sent way. In compelled to buy the soft lobuters, because others do it. If Parisament made a law, that it should be illegal to buy soft lobstere there would be no practical difficulty in dis-tinguishing between a coft and hard lobster. Thinks even with such a law a close season would be necessary. The fichermen would do hetter in the other

months of the year. Gets berried hene more or less all through the year. Most of them are Berried. caught in May and June. Berried hers take the market more readily than any othere. It would not do to make it illegal to buy and sell herried hens. Is aware of the old close season under 9 Geo. II. Never knew or heard of its being enforced. That law is a dead letter here. It would be a good thing if it were not. The fishermen now want full price for every lobute, even for those under 9 inches. There are a good many under 9 inches. In most cases they get their price. The competition is so keen they can command their own terms. Would be in favour of a law enforcing the return of all lobsters under 9 inshes Gauge. from the tip of the snout to the tip of the tail. Thinks that the return of these lobsters would make a great difference, but is in favour of a close season

in addition.

Would enforce the law of close season and gauge by making it illegal to buy Referenced and sell lobsers in close season and small lobsers. It would be about to make a law applying to the filterana and not to the markets. If there is a close season it must be universal and apply to London. Imagines that the habits of lobeiers are the same everywhere, and that therefore the same laws

would be applicable everywhere. (By Mr. Young). There has been a decrease not only in numbers but in cise. Decrease. The decrease in size is also attributable to the over-fishing. Thinks the old close season, June, July, and August, not so good as the four months he recom- Gore time. mends. Would have a provision like that in the Salmon Acts against the sale of lobsters in close season. There are more boate in the lobster fishery than there used to be, and they carry more crosts and rings. The boats therefore

aught to get more lobeters than they used to, instead of fewer. DONALD NEIL (exemined by Mr. Young). A fisherman at Kirkwall. His experience in the lobster trade extends over 10 years. Lobeters are not so Decrease. experience in the soluter trade extends over 10 jests. Doubtes are selectful as they used to be. They have fallen off a good deal, but there are more people following them than there used to be. They are less in size as well as fewer in number. Formerly they only fished in May and June, now they fish throughout the year. There are more boats, men, ringe, and creels. Thinks that all lobsters under 9 inches over all should be returned. A lobster Gauge of 9 inches is not much. 9 inches is the very lowest size that should be fixed for the gauge. Would make it illegal to buy or sell lobsters under

this size. Thinks that there should also be a close season. Thinks that the close Gore time. season should commence on 1st July, and should last two or three months. Believes that four months would not be too long so far as the fishing is con-cerned, though the fishermen might object. Has often heard of the old Act imposing a close season, but never heard of its being enforced. His experience extends over most of the Orkney Islands. There are places like North Ronaldshay exposed to the Atlantic, where it is impossible to

over-fish lobstere. Imagines that the natural habits of lobstere are the same everywhere, and that the close sesson should extend everywhere. Couldn't tell how close sessons could be enforced. Thinks the law would be obeyed. (By Mr. Walpole.) Thinks that there is only one officer of the White Herring Board in the Orkney Islands, and that there is no Coastguard. There are only three policemen. The law, therefore, ought to be caforeed in the markets, and the sale must be allowed one week after the close ceason commences. Wants a close season for July to September, because the lobstere

are soft in those mouths. It would not be sufficient to have a law prohibiting the cale of soft lobsters, because it is difficult to distinguish some of them from hard ones.

LOBSTERS.

JOANEM MURBELL (conscioud by Mr. Welpoid). Fishermer, full-subserma, and succinence, and Stemenose. Has been in the labelter brainings of years. Buye from inherenan in the South Ildes and West Mailained. The lebester on the cast side evers larger than intoos on weart side. The west side howbers were formed to the side of the sid

Price.

July. This system continued 401 1845. In 1854 he began to take believes in the harvest-dam form the middle of August. They went on from that time thing them all the year rotted. In the present of the p

Ione time.

romainty often age one many gave two who distinct ages are made in the process with fully of ming and creeds, and only yet 36 loshiests. The proper remely for this is a close season. The close season should commance on 16th July and end on 1st Deomber. July, however, practically protects itself as the most asc on the herrings. This that a close season of this intil would do much to rostee herrings. This that a close season of this intil would do much to rostee the herrings. This that a close season of this intil would do much to rostee the contract of the contract of

Spau

yaz. Tanks that when the herries get reddisk and ripe the loster should be returned. Thinks that show such he no temptated not to the fibbrarous to remove the herries, and that the fishermen would not loss much, as there would only to host 10 in a season. It would be impossible to return all the herried lobaters. Has seen 70 out of 100 herried. The lobaters was generally kept in closuist which allows in the sea. The lobaters in the chost of Would also return all bothers under 10 inches to the sax. There is a bed of small lobaters of Hey Head. One For Hey Head however, not 10 per cent.

Сопре-

would be below 10 inches.

The docrosses is not a marked on the Atlantic side of the islands as in the Bays. The Rackvick (South of Hay) was saver fladed except between March and July befoot lawyst. The mean lock to crede last year, and in one assound tay delease that ground, and have had this war to go into floop water. Nitry was a gar that sinch beads at Indicables we may 1,400 labelures and has by well before years and the sinch was the sinch of the sinch of the sinch produced in the proceeding year their was a Banfishire host on this ground. The year was a claim one.

calm one.

(By Mr. Yosse,) Believes that a lobeter ground of limited extent may be entirely fished out in a few years. Knew all the London smacks that came down to buy lobsters. The smacks took from 20,000 to 30,000 lobsters each, but they only fished in the proper seasons, and did therefore no injury.

Would have a close season enforced by advertisement and by the public prescentor. The 2th Section of the Act of 1868 (Sorth Sahnon Fisherics) would, seatetic sustancing be sufficient, but it would be better to enforce the law on huyer and seller. (By Mr. Welpole.) Crabs are caught here, but are not used as merchandise,

CRABS. (By Mr. W Fointless. Robert Hs

(By Mr. We)cole.) Unable are compile loves, but are not used as mercolations, as few are sold in the towns. It wouldn't pay to go and fish for each about. Honever If saver (examined by Mr. Young). A falterman residing at fixit wall.

However, the contraction of 90 years. During that into the sees as great some and the sees of th

Price.

Elega. Thirty years ago the boats had no crecks, only rings. Now they carry

both rings and creeks, and more of them. If the lobsters were as plentiful as LOBSTERS. they were, they ought, with the increased machinery to eatch double the number

Thinks that the falling off is due to over-fishing. Is in favour of a close close time, senson from the last July to the end of October, and would prohibit the sale of lobsters during these months. The close season would not restore the fisbery to what it was, but would make a change for the better. Would also return

all lobsters under 9 inches. Would take berried hens, except during close Genya

Agrees generally with the preceding witnesses. There are a few lobsters to be found on every ground, but not many now. Catches crabs only when They are beginning to go out of condition now (October). fishing for lobsters. Crabe are not used for bait. The fishermen use mussels, which they get for themselvee. Thinks July, August, September, and October would be a suffi- Goostine. cient close season. The crubs should be as good in May and June as at any

(By Mr. Walsole). Fishes nearly the whole of the Atlantic coast. Doesn't go far out. The lobster ground extends a good distance out. The water he fishes in is 5 to 6 fathoms. There are fewer lobsters than there used to be. Has in deep senter.

been out to 10 fathoms water, but didn't get so many lobsters as inshore. There is no reason why they shouldn't go out. Some Banffshire boats came down and went out 15 to 18 fathoms, and they were successful. It is not the practice of the fishermen to go out so deep.

JOHN HERCUS (examined by Mr. Walpole). Lives at Kirkwall. Has been a fisherman for 15 years. Has fished for lobsters chiefly in the North islands. 15 years ago used both crecks and rings, but fewer of them. Now the fishermen Decrease. use about 40 creeks and 40 rings, then about 30 and 20 rings. 15 years ago used to get about 800 lobsters in a good season (March to July). New gets about 300 lobsters in the same months. Does not get half so many as he used

to 15 years ago. Does not think that there are many more boats on the lobster ground. There are not half so many lobsters in the sea as there were 15 years ago. Fished 15 years ago in 6 and 7 fatboms water, and fishes in the same depth now. Doesn't know whether it would be a good thing to try deeper

water. Believes that u close season would be a good thing. It should commence in Clear time. July and end in October. The fahermen, as a rule, go on to the herrings in July, and stay herring lishing till 6th September. Never fish for lohaters then;

but there are some fishermen who fish all through. Doesn't know why these men don't go to the hervinks. Would not think it unfair if he were made to return all small lobsters under Gasge.

Would not make it unture If he were made to return all small behaters under George 9 buckes to the set. They would grow into big one sit the pived long normal. Berried hear. Thinks it would be very well to return the betried, hears when the herited hear. Become reddilet. They got a good few of these about June and July. However, they go a good few of these about June and July. However, they go a good few of the second the set of the pived in Houseville Bouncer Bootom (esseated by Mr., Young). Agrees that there has been fewered in the pived of the pived by the second pived by the pive

a decrease in the number and size of lobsters, and that a close season and Decrease.

a gange would be necessary. It would be easy to remove all the berries from a berried lobster. (By Mr. Walpole.) Thinks it would be impossible to detect removal of berries, and it would be absured to make such a law. Fishes in about 5 fathoms Is deep water

of water. Has never tried deeper water. Thinks it would be a good thing to try deeper water, but it takes the fishermen from home, and is lonely. At present comes home every day, but if he fished in deeper water would have to

(By Mr. Young.) The true way to enforce a close ceases would be to prevent Chas time-the sale of lobsters.

The men get large crabs here, measuring 5 or 6 inches across the back, but

they only sell them locally. They will not carry. The lobsters have their gran not carry. claws tied and are packed in senweed.

Mason's Arms Hotel, Stromness, Monday, 16th October 1876.

PRESENT:

LOBSTERS. Decrease. Oresie.

SPENCER WALPOLE and ARCHIBALD YOUNG, Esquires. Samuel Flett (exemined by Mr. Young). Lives at Stromness. Has been engaged in the crab and lobster fisheries for five or six years. The lobsters have fallen off a good deal. Has fish coming in from three different plant.

have failen off a good osa. Has no coming in from three dimercial places. In Rachwick Bay, Hoy Island, they commenced with the creeful last fall; they had only used rings before. This spring they got very few lobstess where the creels had been used the provious year. They can fish in deeper water with the creeks, and begin earlier. The case began fishing with the creeks that year (1876) in Pervayor, they continued till the last June. They then lett of till (1876) in Pervayor, they continued till the last June. They then lett of till the provious properties of the provious properties.

Ologe time.

about the 1st September, most of them being away at the herring fishery. They finished about the 14th October. Would like to see no lobeters flahed in Rackwick Bay from the 1st July to the 1st January. The fish are not strong at that season of the year; they are not full in the shell. There is a place called Breay, on the vest coast of the mainland. The fishermen cannot full there so early as they do at Rackwick. The shore is peculiar. They commence at Birsay about the last days of April or lat of May. Thinks that in that place they should fish till the end of July, otherwise they can do nothing. Would not fish after 1st August. The fishermen there stop fishing now after July. The third place he gets lobsters from is around the small islands to the east of Hoy. There are not many lobsters caught there. Four years ago some fishermen went there with creeks, and got some fine large fish. In the following season the lobsters were few and small, and since then many have not been got. Takes lobsters under 9 inches; refused last year at Birary to take lobsters under 8 inches. Would approve of a law enacting a close season. This would be good both for the fishermen and for the salesmen.

The sale of lobsters should be prohibited in close time. Thinks that it would not do to insist on return of berried hens. Would rely on a close season, and allow the berried hens to be taken in the open months.

Gauss.

(By Mr. Walpole.) Would perhaps require some supervision to enforce the law. On reflection, thinks that Birsay and Rackwick Bay must have the same close sesson, and this must commence on the 1st August. It would be unjust to the Birsay men to close July. Sends the lobsters to London, Liverpool, and Manchester. The price is very fluctuating : it has been very low lately. Thinks that an 8-inch gauge is too small, and that a 9-inch gauge is preferable PETER SINGLAIR (enumined by Mr. Walpole). Lives at Stromness. Has been a fisherman for 30 years, and fished for lobsters all that time more or less. Most

No decrease.

of them are got outside in the Atlantic, a few are got inside. 30 years ago used to get 900 to 1,200 lobeters a year, according to the season. In those days commenced fishing about March and ended about the 12th July. There were then only three boats from Rackwick, and there are now nice. They don't fish the same ground as he does. The boats which fish the same ground as its does have also increased, and each boat carries three times the material. Each hoat now takes from 600 to 800 lobsters a season. 30 years ago three boats would have got 1,000 lobsters each, or 3,000. Now nine boats could get 700 each, or 6,300 lobsters. Believes that the ground produces now as many lobsters as it did 30 years ago. 30 years ago fished in 5 fathoms water, now fishes up to 18 fathoms. Gets superior fish in that water, which were never caught before. Is very well satisfied, except that he thinks that fish abould be let alone in the spawning sesson. By the spawning sesson, means June, July, August, and September. Thinks most of the fishermen round

Close time.

this coast will agree to this close season. The Birsay men would be able to this desir will agree to also close some state the lossers in the other months if they choose to try for them, but they must work harder. Would approve of returning all lobsters under 9 inches. (By Mr. Young.) Has heard of the 9 Geo. II. fixing a close season for June, July, August. It has never been observed. Believes there are as many

No decreese.

lobsters now as there used to be. WILLIAM STANGER (exemined by Mr. Young). Lives at Stromness. Has been a fisherman for 12 years. Is a partner of previous witness. Agrees with

his evidence. Has nothing else to say.

Person Structure freedled). The fishermon result agreed as to the necessity LOR for a close time and a gauge. There are eight or also beats fishing for lobsterm now. These were only three, when he began, out of thermones. There were not provided to the structure of the contract of the

Burghead, Thursday, 19th October 1876.

PRESENT:

FRANK BUCKLAND, Esquire.

TRIMMAR JUNKINS, filterman, of Borghand. Has been in business 38 years. Cube fining in persecuted to a very small extent about here. The people fish with clips among the rooke. There is only one bost fishing for scales. Gets many agatax irren 4 to 6 inches in langualty among the rooks. Prices have doubled during me of the persecution of the persecution

barrel.

John Ronn. Has been a fisherman for 60 years. Used to get crabe 20

years ago. Now it is difficult to see one in a month. Outside, the bottom of prevens,
the sea is shelly and sandy. The traviers have fished out the crabe. Traviers "resulers,
also fish up the spawn of haddock, eachs, and all other sea fish. The fishermen often used to cotch crabs on their lines; now they don't catch one.

men often used to catch craise on take times; now one you're cauco one. They are much source than they ever have been.

W. DAVIDSON. Has been a fisher all this life. 40 years ago, when a boy, he used to catch many orals and bobaser; but does not catch use now for a hundred. Deserous, formarly. The travelers have likeled out all the ceals. The travelers come from Travelers. Louisemouth. The cealse caught by them are sent; to the south from Leading the contract of the could from Leading the catches of the catches

month. The trackers cotch them in July, which is their best time. They should be freezed to put lack all calls under 4 inches over the black. Used to Gausse stands chase on hooks when thising for haddeck; but enthine the theory few now. T. Jerking consulted. Cold has agress denoting to bothers. Hartly ever LOBSTEIN, opens a ood without finding young lobaters in the stomach; this is particularly comes to out without finding young lobaters in the stomach; this is particularly in February and March. Has seen could throwing up lobaters on the dock; Theorem.

opens a cod without moding young consisters in two consists; that as pin-steady open in February and March. Has seen cod thraving up lobaters on the deck of a nivessel; as many as five or aix lobaters in one cod. These lobaters would be three or four inches in length, or even emalier. Cod eat lobaters all the sancor. In the spring, and in January, February, and March, there are many cod about.

"JARSEN MACKINYOM. Redures the evidence of previous witnesses." Give state. Three should be a close season in July and August, and all bolates under Gless time, inshe in the barrel should be put back into the water. There are 20 towriers Gauge Leastmonth. The filtery is a constant of the state of the st

Dougheau. Few cross see gave a Distance. In the cases of the ground is about 18 valles.

Joun Retp. Has been station officer of the Coastguard for the last 11
years. There is no orab or lockers fishing going on now. Thinks small crabs should be put back into the water. Thinks the crabs are nearer to the rocks than the twelvest care come. If there is a new law regulating the crab and

tens use clawers user course. A success the second of the firsting time can be all leader fisheries it should be confided to the firsting littlery different as by Discress. WILLIAM MAIN. Has been 30 sections are not fow. The cause is the two-second course of the second of the course of the two-second course of the second o

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OF LED Class time.

15 miles out to sea on the haddock lines. There should be a close time for crals in July and August. In these months crabs are in spawn. Does not use crahs for hait. Has opened a good many cod, and found either a crab or

Season for. Greecth.

a lohster inside them. This is the chief food of cod.
ROBERT WALKER. Has been a salmon fisher for 22 years. Has hed creeks see from St. Abb'e Head to Holy Island. Has fished at Hartlepool. Crabs are in hest condition at harvest time; they spown in May. They should be caught when in proper condition to be esten. There should he a close time when they are spawning. If left in the water the spawn would develop into thousands of mature crabs. Thinke that it takes two years for a crab to come

to maturity

JOHN MACKIE. Has lived at Burghead for 55 years. Hardly sees any crabs now where there need to be plenty. The trawlere began about three years ago. Before the trawlers came they used to catch plenty of crabs on the lines, now they catch none. The trawlere have banished all sorts of fish off the ground. Crabs have two seasons; one season is in October, this is for out-shore crabs. The other season is in June and July, for in-shore crabs. He means that then they are full of mest. The outside crabs would be 8

Translers. Season for.

inches, the inside crabs would be smaller.

Coastguard House, North Berwick, Friday, 20th October 1876.

PRESENT :

FRANK BUCKLAND, Esquire.

Decrease.

Provoct P. BRODIE. Has known North Berwick for 40 years. There is a crah and lobster fishery here. Both the crah and lobster fisheries in North Berwick have fullen off about one half within his recollection. Has seen them sent off in burrels and hoxes 15 years ago. The railway was opened 18 or 20 years ago; does not now see the same numbers of barrels and boxes going away as he formerly did. Can give no reason for the diminution. It would be as ne nomeny on. can gree no reason nor ne diminution. It would be of great advantage to the town to have the fisheries increased, and would like to see that does. The resident population of the place is about 1/50°, in the place is good record for invalue. Many visitors come from London, and it would be an advantage to have fresh each said obsters for the visitors. The visitors from Edit Integral said Glasgow would have fresh each and the place of the place o lobstere, and this would be an additional attraction to North Berwick.

Dorman.

JAMES GOODALL. Fish merchant. Has been in the trade five years. White fish, lobstere, and crabs have fallen off one quarter within the last five years. Lobiters have not fallen off so much in quantity, but they have become smaller. In consequence of this deterioration in size, prices have fallen off. Sends crabs and lobsters to Hull and London. Four inches across would be a "full orth." Crahs measuring under 3 inches, when measured the long way of the back,

Ologe time.

Crahe measuring under Sinches, when measured the long way of the lack, would go two for one. Sends them away from April to the end of August. There are few to be taken in March. There should be a close time for crab-when they are centing, their sheals, that is, between the end of August and the end of November. White crabs see then unsakable and until for fool. Ronnay Mittas, faberman, Han shade for go years. The mode of flaking at North Berwick is by creels, which are haited generally with codifish. Never fishes with rings. The fishermen begin to set their creels at the end of March, and about the middle of July they bring them ashore, as they cannot get a

Decrease.

eefficient quantity of erabs to pay.

When he first hegan he used to get a creal full of crabs. Now he only gets 9 to 12 crabs in a creel. Haz seen as many as 35 crabs in a creel, halves and wholes together. A large whole crab would be 4 inches across the back, a half crab is 3 inches across the back. Anything below 4 inches goes two

CRABS for one. The cause of the falling off is the use of small crabs as bait for the

lines. All the fishers use lines from April to June.

A 6-inch crab (in length of shell) would be counted a whole crab; an extra big one would be Si inches, and the proper size for a half crab would be 5 inches. All "partans" below 5 inches should go back into the sea. It would Gauge be an advantage to put back two crabs now worth 3d. each in order to get two orabs worth 6d. each the next season. Crabs begin to spawn in April. Rezely Names would not case in the next season. Crans negit no spawn in April. Askedy one crash in April and May. So far as he and his crew are connected, any Berried. onke full of spawn are put back. There is no market for these craise. Would like to have a lase enjoining dust these enable should be put back. Thinks that by taking aparwing craise he would be robbing himself and his follow falserment of theirsmand. Would like a colore seasor, from the labore and of August till November. Crabs cast their shells in the middle of August. Lobsters, Steelding shells.

like crabs, have fallen off very much at North Berwick, the cause being the catching of famales in spawn and of small once. The merchante gauge at present is 4 inches across the barrel. Lobsters under this measurement Description should be thrown back into the water. They are called half lobsters. Has seen a hen lobster put into a box, and in about three or four weeks after generate. a great many young ones were born, and they clustered round the mother like chickens round a hen. Has een a lobster on the top of a hole, and young lobsters, 1 or 1½ inches long, within eight of the holes. The mother was

evidently looking after her young. A hen lobster when opawning makes a nest like a swallow, building it with mind and sand with her home; and spawns in the nest. A lobster found in a nest is always full of spawn. It would be a good plan to throw all berried hens into the ees, and he would answer for himself and his crew that this should be done. Lobsters over 41 inches long bring 1s. each. Is engaged by Mr. Goodall to fish. Small lobsters chould be put back into the sea.

JAMES GOODALL (recalled). People will not buy the half lobsters: they should be put back into the set. This would be a benefit to his business, as people do not care about them. He cheald like to set is canced that female spawning lobsters be put back during all the scaron for two or three years to come, with a view to reinstate the breed. In North Berwick lobsters are never Zadliko.

"plugged," and embs are put into hot water, not into cold.

Provet Bronn (recalfed). Thinks it would be a good thing to enforce Berviel. the putting back of lobates in spawn in localities where this is desirable.

James Forker, fisherman. The North Berviek fishery ground begins at CRABS. Canty Boy and extends to the islands of Lamb and Fidra, and ie one mile wide; altogether it is about four miles in extent, and in this there are set, during summer, about 1,000 creels. The depth is about 4 to 8 fathome. In the winter crabs and lobsters go into deep water. "Partan" fishing should crass time. be closed from August till November. He would agree to put back all

spawning hen lebeters for at least two years. Lobaters spawn all the year round. JAMES GULLAN. Has fished for crabs and lobsters for 20 years. The fishing has fallen off both in the size and number of the fish. He and his comrade used 20 creels from April to the end of September. Partness then go Mayattos. into deep water. He commences fishing for lobutors on October 1st, and goes on to April. Thinks the ground is falsed out. Agrees that there should be a close time during the time when crabs are casting their shells from August to Good time. November. A great many partans are used for bait for haddock and whiting.

The nearest place for getting museols is 23 miles off. Grabs are only used on one of the form of the f think the other fishezmen would agree to it.

All half lobsters, two for one, should be put back into the water. The merchants would rather be without them. The ground outside is all rocky hard ground, with patches of sand. The fishermen must go a mile from the land before they get clear of the rocks.

une mend before more get desire of use rocks.

There are plendy of cray-fish or the ground; but the fishermen never go CRAY-PISH.

offer then, as there is no sale. Has seen tons of these fish thrown away.

Has shown them book for the hast 20 years. Calls then cost-proving Value

lobsters. They average 3) inches in the barrel. Would be glad to find a markef for them. They are not falling off.

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LOESTERS.

Saforsement of

John Morris, station officer of the Coastguard. Has been here two years. There are 45 boats from North Berwick; 23 of them are crub and obster boats: the rest are engaged in the white-fish trade. Has never been instructed by his commanding officers to carry out the Act of George II. enforcing a close time for female lobsters. He and his officers are in a position to carry out any law that may he made.

Portree Hotel, Portree, Friday, 20th October 1876. PRESENT:

SPENCER WALFOLE and ABCHIBALD Young, Esquires.

LOBSTERS.

Donald Macdonald, steamboat agent, Portree (exemined by Mr. Young), 12 years supercargo in the steamship "Clydesdale." Carried a good many fish.

La year supercorgo in the scenarios of the second and second and second many first carried more lobsters—a greet many more—at the commencement of his experience than latterly. The lobsters came chiefly from Tarbert in Harris. But they came also from Stormoway, and Lochmaddy. They got lobsters from Lochmaddy all they sear round. The finhermen fished all the year round, and there was no close time. Never saw anything but creek used. Believes there are more boats employed in the fishery now than when he first knew it. They could, if lobsters were equally plentiful, get more than they used to do,

Incy count, it routers were equally partition, get more units firely used to do, but they don't give the lobsters time to grow, they are "nipped in the bud," and don't have fair play. The lobsters are put into half tee cheeks, and sent way by steamer. Has seen 30 of 40 lobster cheeks in a single trip, when went to Tarbert and Lochmaddy. The lobsters now have fallen off so much in size that twice the number are put in a box that there used to be. Thinks that there should be a close season, commencing 1st May and ending 31st August, because lobsters are out of condition and watery in those months. No lobsters under 41 inches in the barrel ought to be sold. The only people

Zamaro.

this would interfere with are the fishermen who fish on the Atlautio coast of the Long Island, who fish chiefly in the summer months. The small lobsters won't sell in the Scotch markets. The lobsters come chiefly from the west coast of the Lews. They had ponds for them there, but the ponds did not succeed. The lobsters fell off in condition when they were confined in ponds. His ship had no crabs consigned to her, but had oysters from Skye. Harris, and the Lews. Never heard of a lobser ground which was entirely fished out. A great many lobsters come from Tobermory and from the west side of all the

Weather.

The best fish and fishermen are on the Atlantic shore of all these Hebrides. The best fish and fishermen are on the Atlantic shore of all these islands. The coast is more stormy; the lobsters cannot be over-fished; they have time to grow and get stronger and firmer.

(By Mr. Walpole.) He cessed to be supercarge in the "Clydesdale" in July. The Skye Railway was not built when he was first connected with the "Clydes-dale." It was made in 1870, and the lobsters have been considerably diverted

from the steamsbip to the railway. But this does not account for the falling off. There are fower caught. Believes that there are fewer lobsters caught in Harris than there were 12 years ago, at any rate that there are fewer boxes. The lobsters being smaller more are packed in each box. The price is three times as high as it was 12 years ago. If May to August were closed the men on the Atlantic coast of the Long Island would only be able to fish occasionally in frosty weather. Thinks that lobsters can be caught as easily in frosty weather in winter, as in summer. But the west coast is a stormy place. There are now as many lobsters under the gauge as there are above it. 12 years ago nearly all the lobsters were above the gauge. Believes that May, June, and July are the chief spawning months, but is not sure of this. Has

heard the fishermen say that the ground was over-fished, because they caught so many small lobsters. Two weeks ago lobsters were 9s. 6d. a dozen in Skye, wholesale, they were last week 8s., but they did not pay at either of those prices. JOHN ROBERTSON (examined by Mr. Walpole). Fish merchant, Portree. Commenced buying lobsters on his own account in 1862, but bought them previously for his father. The supply comes from the north-west and west LOBSTERS. coast of Skys. The lobsters are brought over in carts and cent by mil to London, Liverpool, and Manchester. In 1862 betters were from 6s. to 20s. a foorm. The lobsters are chap in September because they are plentiful; in February they rise in price to 22s.; and 35s. a dozen has been paid for them. Sesson for. This is the highest price. The season commences in September and ends in May, when the spring work begins, the men being half farmere, half fishermen. The lobsters are not so plentiful as they were in 1862, but there is more

difference in the size than in the number. The lobsters are measured by the barrel gauge, and lobsters below 4h inches, or wanting a claw, count two for There are a larger proportion of lobsters under gauge than there used to he. About 20 per cent. of the lobsters were under gauge in 1862, and shout 50 per cent, are so now. Thinks that this falling off in size is due to overfishing. Believes so because there are more hoats on the lobsters than there used to he, and the boats carry more creels. As a remedy would make it illegal to take any lobsters below a certain size. Thinke that the gauge might $G_{\rm Supt}$, be fixed at 4 inches in the barrel. The lobsters this year are more pleatiful than last year, but smaller. Would also recommend a close time. In Skye $G_{\rm Sopt}$ time.

no lobsters ought to he fished after April till September. There are not many lobsters taken in those months now, in Skye, but a few are taken. would be no difficulty in fixing one gauge for the whole country. The lobsters are sold in Liverpool and Manchester by the weight, in London by the chest. They never talk of the size. Would have, however, a uniform gauge over all

the country, for the fishermen and the first huyer.

By Mr. Young.) The close season, if there is a close season, must be universal, and there must be no lohsters in the market in these months. Has had no lohsters from the Lews or Harris since he commenced business. The lohsters from these islands go away by the direct steamer to Glasgow. In 1865 he went to buy lobsters at Terhert in Harris. They were fine large lobsters, he never saw liner except from Rona. The island of Rona had not been fished for some years. When men the commenced fishing at that island the lobsters were remarkable for size, only four dozen and nine went in a hox which ordinarily contains seven to nine dozen. After the fishing the lobsters became very scarce. The place was so small that it was almost entirely fished out. It is therefore advisable to take some precautions against over-fishing. Is aware of 9 Geo. II. c. 33, s. 4, instituting a close season for lobsters. Most of the fishermen are aware of it. It was once enforced or threatened to be enforced in the Lews. Till lately there was no need of this Act so the fishermen didn't fish there. Since the Skye Railway was made they have begun to do so. Thinks the diminution in the size of lobsters is a striking proof of over-fishing. The fishermen do not give the lobsters time to grow. The most effectual way of mmemons no not give the ionaters time to grow. The most effectual way of enfocing a close season and gauge would be through the markets. Had a Skye lokater in 1863, weighting 7 lh. 9 ors. It came from the west coast of Skye. Is was 29 inches long. About the same time he had snoothed from Rona of the same sites. The last consignment he had was on the 17th Cooker 1876, he had 36 lokates weighing 120 lbs. They came recommend the same sites. Kilmalunig. Believes that the fishermen on the west coast of Skye fish in 12 In deep unter. fathoms. The farther they go from the shore the larger the lobstern they get. There is a place called Sein, in Loch Bay, on the west coast of Sire, where the loluters are always small. A 4-inch barrel gauge would close the fishing at that place. There is, however, a place near, where they get large lobsters. Kilenalusig, Gendale, Ruan Dunan, and Ross, produce the hest lobsters in

Skye. Skin produces the smallest. There are lohsters in Rassay.

William Strawart (essential by Mr. Yossey). Resides at Portree; is a
Spherman. Buys lohsters and sends them to Sillingsgate Market. The lobsters are not nearly so plentiful nor so large as they were 20 years ago, Decrease. There are as many boats fishing now as there were when be first remembers it. The heats carry more creeks than they did formerly. The lobsters have Creeks. not risen in price. 18 years ago pold 25s. 6s. a dozen for them, and could buy them now for 7s. 6d. In February they would be from 12s. to 15s.
Thinks that the diminution in size is due to over-fishing. In some parts of
the island, the fishing goes on throughout the year. Thinks that there ought close size.

to be a close time in May, June, July, and August. During these months it should be illegal to buy or sell any lohesters. The lobeters then are of little

STREET,

value because they will not carry to market. It is waste to take them in those months. Doesn't think that it would do to put back small lobsters. The fishermen take everything, small and large, and would not obey such a law. Is could, however, be done by enforcing the law in the markets, if there was a man for the purpose in overy town where lobsters ere sold. Has caught lobsters from the Lews and from Harris. There are a great many lobsters caught in these islands. Can form no opinion when lobsters spawn, but thinks thay spawn in March and April. Thinks that the small Stein lobsters Mr. Robertson spoke of are a distinct species.

Dunbar, Saturday, 21st October 1876.

PRESENT: FRANK BUCKLAND, Esquire.

Provost James Brand. Has been provest for 28 years. Dunbar has been, CRABS. and is now, a great erab and lobster fishing station. Boats have now to go further out at this season of the year than formerly, because the ombs have further out at this sensor of the year than normerly, occasing the control gone out into deeps water. There are not many lobisters in comparison with crabs. There are two parties of fishers, of different opinions, at Dunbay. Would advise legislation for the protection of crabs and lobiters, which would benefit the fishermen and the public as well. Thinks there should be a close time for crahs and lobsters. Generally many men here fish all the year round,

therefore a close time would be opposed. It would not be more profitable to . put back soft crabs or small crabs.

Lobsters are not caught in any quantity. The bottom is hard soil, and there is much sand. The ground extends from St. Abb's Head to the Bass, a distance of 23 or 24 miles, and 2) to 3 miles out to eea. The fish chiefly go to the London market. Legislation would have greater effect and be more valuable if it could be made to suit the local circumstances of Dunbay. There is a bar at the mouth of the harbour formed of the debris of rocks fallen from the cliffs at Casele Rocks. It has been increasing during the last 10 years. Formerly there was no bar. This bar is dangerous to fishers, and they have to stay out till the half flood before they can get in. Very often this bar causes the boats to lose the train. It should be removed, as it is dangerous to life and property, and deteriorates the value of fish. Men have to go up the Forth for safety, and land cargo there on account of not having sufficient water at low tide. The stones should be removed to enable the current to carry off at low ids. The stones should be removed to enable the current to carry of the and and keep the solvour open. Weat to Mr. Stewnson, C.R., and Mr. Primores, and asked them to smist in the word. Would enhereby 100; to Would with them fact the control of the control of the control Would with them facts the control of the control of Tande, and Sir H. Ferguson Davie and Lord Elolo, M.P.; for East Lothian. JOHN STARS, Springfield Villa, Dumber. Agrees with the evidence of

Provost Brand, especially that it would greatly confuce to the benefit of the public in general, and Dunbar in particular, if the bar were made pussable. JOHN SARYER, Has been a fisher for 30 years. There are as many crube now Dearenged sies. as ever brought ashore, but they are smaller in size. The merchants take small and large together. Sometimes four crabs count as one. A crab like this would measure 3 to 35 inches across the back. They can always get a market Saft.

for them. Thinks these small crabs should be put back to grow. Begins to find ceft crabs in August and up to October; these are crabs that have cast their shell, and whose new shell has not yet hardened. Finds soft crabs below the daba. The shell of a soft crab breaks. Most on serve came and date of the food. In the months of December and January soft crabs would become hard. Fishers put them on board both at sea and in harbour. They should be preserved.

LOBSTERS. There should be a close time for lobsters in June, July, and August. Hen Close time. lobsters sit and spawn on their nests like hens. Has heard that young lobsters go under the tail of their mother. They quicken in June, July, and Found. August. Has seen snown alive. The merchants have a gauge of 44 inches.

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Instead of merchants taking soft crabs for Ls. per dozen they should give the fishers 3s. per dozen to make up for the return of soft crabs. They now

CRABS

LOBSTERS

CRABB.

CRARS.

give 1s. a dozen for hard and soft crabs mixed.

JAMES ROBERTSON. Has been a finherman for 20 years. Crabs have not got No decrease. my starcer. When he first went to sea there were four bonts ; none of them fished. The was at Skateraw. Came to Dunhar about 1860, then there were 30 or 40 boats; there is about the same number now. In the summer each hoat carries from 100 to 140 creels. They begin to set the creels in March, and take them up in July. A few boats go to the Siceries, only three or four. They fish all the year round. They do not use crabs for bait, and do not break up the small ones or bait. The merchants in the inland towns, such as Leeds, Sheffield, Nottingham, &c., desire the fishers to send smaller crabs, not large ones. The reason is that people can afford 3d, each better than 6d, spices for crabs. In the general run of the season, in the spring, small crabs are full of meat from January to July. Thinks a gauge would not answer because it would lead to disputes, and time would be wasted in measuring the crabs. A good haal would be 30 to 40 dozen, seven to ten kits holding four dozen each. Three years ago there was an excellent season: no diminution in the number of fish. Soft crabs are of Saft. no use, and ought to be put back. Sometimes they are saleable in the market. CHARLES FILLEUL. Has been a fish curer for 15 years. Since he has been Decreased size. CHARLES FILEBUL. Has been a tun ourse for 15 years. Since he has been Decreased here there are not so many rules as there were 15 years ago. There might be as many in number, but not so many in bulk. The size has decreased to a great actent. The cause is over-dishing. Formerly there used to he over 70 creek per book. Now there are 150. If there is to be a close time it should be close since overlap the book. Now there are 150.

creas per none. Now there are 10th in tuners is to be a case time it should be from August to October, which would save the soft crabs and allow the smaller ones to grow. Any gauge would be awkward when the men were in a hurry, but thinks crabs are far too small. Has heard the expression of "Dunbar cast." If crabs were larger be could afford to give more for them. Has always bought little and big crabs together, but gets more money for the big once-The gauge might be a hardship for a time, but would eventually benefit both dealers and fishers. Could not say what this gauge should be

Lobsters have diminished. Dunbar used to be a famous place for lobsters 25 years ago. It is not so now, the ground having been over-fished. A whole lobster is 44 inches in the barrel. A half lobster is 4 inches in the barrel. Gets about equal numbers of both. It would be a benefit in the long run to gauge, yeturn the half lobsters to the sea. Understands there is an Act to make a close time from 1st May to 1se August. The town clerk posts this Act. Never heard of any prosecution under it. Most undoubtedly soft crabs should be gags, put back. Says this most advisedly. Fishmongers in town often write to

complain of the soft crahs, because they lose their customers by selling inferior articles.

ALEXANDER COMBIN. Is 70 years of age. Has fished for crabs for the last ALEXANDER COMBIE. 15 /0 years or age. The ment for every one now, and they noware. were also larger. They have gradually degenerated. Every year there would be six hoats; now there are 30 or 40 beats. The railway came in when he was a boy. Formerly the fishermen did not send away the crashs, but only the claws, boy. Formerly the manermen and not send away and craims, but only date claws, which sold in town at 3d. a dezen. Now they send crabs, claws and all, to London. Thinks that for the sake of future generations soft crabs should be son. put book when they are taken. The merchants settle the gauge between themselves and the fishermen. Has beard of the Act of George II. giving a close time for lobsters in May, June, July, and August, but the Act has never been LOBSTEES. carried out. The ground is the same as it used to be. The crub fishers fish in

16 to 18 Stations of wester in spring. All little lobsters should be put back, say Gauge under 4 inches in the barrel. This was the former gauge for them.

W. HOTELINSON. Has been in Dunbay 18 years, and has been a fish mor-W. HUTCHINSON. Has been in Dunbar 18 years, and has been a fish mer-chant for 15 years. Thinks crobs and lobelers are falling off. If the same number of crocks were used now as were used 18 years ago, the fishermen could Dorresto. not get so many fish. Gets most crabs in heavy weather, when the boats can just go out. The crabs are drowned, and the swell washes them up. Soft crabs 50%.

should be put back all the year round, and this would ultimately do the fishermen good. The boats often come in a hurry to catch the train, and mistakes men good. The source track to the half or quarter of an inch. There should be a close time in July and August to the middle of September. This close Close time.

time would do no harm, because the loats could not go out at that time, and

LORSTERS. esson for. Gause.

it would not pay to do so. Gets too many lobsters in May, and gets a very small price for them. Only the principal fishmongers ask for berried hens; the berries are used for sauce for other fish. Would be heneficial to everybedy to return all lobsters to the sea under 41 inches in the barrel; a lobster measuring 4 inches to-day is worth 6d.; each time it casts its shell it grows half an inch. so that very soon it would be worth double the money. Has a shell which has been east to prove this. A lobster grows half an inch in the barrel when it has shed its shell once.

Informenent of JOHN DOUGHTY, Station Officer of Coastguard. Has been here 18 months and has never had any orders to carry out regulations for lohster fishing. The Act could not be carried out with the present number of men. There are four on the establishment here. There is no fishery officer here. Help would be required to carry out any law on the subject. There are shout 170 bosts on the

CRABS Clear time.

register; about 13 of these are orabbers now, but the number fluctuates.

W. ROBERTSON. Has known Dumber 37 years. Has been 37 years in the trade. Crabs have increased is number, because the fishery has been more prosecuted than formerly. Formerly there were three boats, now sometimes there are forty; the dealers get as many crabs as ever. The small crabs should be returned to the water. If there is any close time it should be from October to January. All crahs under 5 inches should be put back into the water.

Gauss. Suft.

'A law should be made that sort crabs should not even be brought ashore; they should be thrown over into the water at once from the creeks. The mer-chants will not take these soft crahs; they are broken up by the fisherman for bait, or thrown dead into the harhour, the fishermen having hyoken their shells with their thumbs. A good coah would be from 61 to 8 inches across the back; [two of this size were produced, picked out of five or six dozen]. From October to January, if a thousand crabs were oaught, five hundred of them would be soft and would be destroyed. It is most important to make a law to prohibit the destruction of soft crabs. A whole lobster is 43 inches in

LOBSTERS. Gayoe.

the harrel. All under 4 inches in the barrel should be put back into the water.

The Royal Hotel, Stornoway, Saturday, 21st October 1876. Parsent .

SPENCER WALPOLE and ARCHIBALD YOUNG, Esquires.

MURDO MORRISON (examined by Mr. Young). Lives in the island of Bernera. Has been dealing in lobsters for 30 years. Believes that there are No degresse. as many lobsters caught now as there were 30 years ago. There are more boats than there were, and they fish with creeks. Rings heve not been used for about 20 years. The creels enable the fishermen to fish in deeper water than the rings. Thirty years ago each hoat used to carry 24 to 30 rings; they now carry from 20 to 30 creeks. There are as many lobsters caught as there used

Store pends.

to be. But the creeks are more deadly than the rings, and he helieves the lobsters are not so plentiful. Fishes all through the year except June and July. Lobsters won't carry in those months. The lobsters are chiefly sent to London. Sends off 6,000 or 7,000 lobsters annually. Has a store pond at Bernera where he keeps the lobsters for the market. There are about 5,000 lobsters in the pond. They are sent to market from time to time as convenient. Is in favour of a close season in June and July. The close convenient. Is in invour or a sense amount of the volume of the sense as a sense and the sense of the sense o close sesson than June and July. Lobsters 4th inches in the barrel count as full fish. Those below this or without a claw count two for one. Is in favour of all lobsters under Sinches from nose to tail being returned to the see. At present huys lobsters under this size but none under 7 inches. Knows that a good many lobsters are caught at Tarhert, but believes that the Berners ground is hetter. The chief lobster fishing in the Lews is on the Atlantic coast. That is a very exposed coast, and cannot be fished in bad weather.

Wishes to add that at all times of the year he gets lobsters, both poor and fat,

both from his pond and from the sea. They are spawning and easting their

Spanning.

shells at every season of the year. Gets many berried hens. These some- LOESTERS. times are very valuable in the market. 15 fathoms is the deepest water Berried.

fished. Lobsters are larger in the deep water, but this depends on the season In deep safer, of the year. Believes that about 12,000 lobsters are exported from Bernera. annually GEORGE MACAULAY (exemined by Mr. Walpole). A tenant and constable

of Creer, island of Bernera. Has been a fisherman for lobsters for 40 years. There are about 20 boats, or more, fishing at Bernera. 40 years ago there were fawer. 40 years ago used creeks and now rings. His ground is towards the Atlantic side of Berners. The ground in some places reaches 6 miles our senwards, and extends along the whole west coast of the Lews. 40 years ago the fishing season commenced in April and ended in October. The lobsters were then taken to London in sussets, and the amacks could not rely on good weather after October. The fishing season now commences on the lat August Season for, and ends in the following June. The lobsters are not fished in June and July, because the men cannot get enough to make it worth their while, and the buyers won't buy because the lobsters won't stand the carriage. The amacks could carry them in June and July because they had wells, and the lobsters could be kept alive in the wells. On an average, catches more lobsters now than he did 40 years ago. From the 1st August to the 20th October 1876 has caught 800 lobsters. Some boats have caught 1,000, 40 years ago could have taken from 700 to 1,000 lobsters a season. Has this year had 9d, for each full fish.
40 years ago the price was from 3d, to 6d. The first English company gave 4dd., the last English company gave 7st. each for lobstors. The first English company came more than 40 years ago, the last about 20 years ago. It carning more money in lobster flahing than he used to; but spends more time at it. Flahes in deeper water than he did 40 years ago. Seldom fishes now where he used to then. His greels are safer in the dosper water. There are not so many lobsters in the shallow water as there were 40 years ago. Thinks the lobsters are about the same size as they were 40 years ago. Out of 9,100 lobsters, on an average about one third are under 42 inches in the barrel. It would not pay to follow the lobsters if all under that gauge would be returned. Would Gauge, he willing to return all lobsters under 8 inches from tip of anout to tip of tail.

15 to 20 per cent, of them would be under this size.

Never fishes in June or July now. These months are practically a close Gose time. season. The coast is very stormy, and the fishermen would be stopped eight to nine days a month throughout the year. Sells his lobsters to Mr. Morrison.

Mr. Morrison puts them in his stock ponds. Thinks that the lobsters are going out to the deep water more than they used, In deep water. and that this is the case with all fish. When he began to fish for ling and cod he

fished them three times nearer the shore than he does now. Has to go now about 20 miles to make the best fishing. There are no herrings on the west coast now; but they used to come there.

(By Mr. Young.) There are many crabs shout Bernera, but they are too far from the market to be kept alive. Crabs are not used for bait; mussels are. MURDO MORRISON (recalled, examined by Mr. Walpole). His store-pond is about a mile in circumference. It averages about 4 or 5 fathoms deep : doesn't abb dry; fresh salt-water comes in from the sea with each tide through Posts. the porous wall which he has built. Gets his store lobsters out of the pond with iron rings and creels. There are about 6,000 lobsters in it. There are fish in it, god and ling, and other fish, and he also through fish into it. Throws in about a hundredweight of fish a week. Sees dead lobsters in the

pond, but doesn't think they are starved. Thinks that with the natural food and the supply he gives them they have food enough. Puts berried lobsters in the pond; believes they breed in the pond. The Spenning. smallest lobster he ever put into the pond was about 6 inches, and has never seen any smaller in it. Pays rent for the pond to Sir James Matheson, as

owning the foreshores. Mr. Macaulay and witness were deputed by the other Bernera fishermen to sive evidence on the subject.

CRABS.

Will not carry.

LOBSTERS.

40353.

Royal Hotel, Stornoway, Monday, 23rd October 1876.

PRESENT .

LORSTERS. Decreased size. Spencer Walpole and Archibald Young, Esquires.

KENNETH SHITH (examined by Mr. Young). Is a fish merchant in EXENDED SHITM (committees on DIF. FORES). It a less mercenes in Stornoway. Has had 24 years' experience in the lobster trade. Speaks of the Lews only as regards lobsters. Obtains as many lobsters as formerly; but

Bosts. Olone tima. they are not so large, with the exception of those in Broad Bay, where they are

not fished in the summer mouths. The Atlantic coast is more exposed than the east coast, but there are sheltered bays in it. The lobsters are more plentiful on the Atlantic than on the cast coast. They have a wider mage. The fishermen do not fish in May, June, July, and August on the Minch or eastern side of the Lews. They fish on the Atlantic side. Has heard of the Act of Parliament imposing a close sesson, but it has never been observed. There are more boats fishing than there were, and each boat has more creek. The beats ought, therefore, to get more than they used to do; and as they do not, lobeters cannot be so plentiful as they were. Is in favour of a close season in May, June, July, and Angust, which must be enforced in the markets.

Gayac. Cresta. Kept in gonds.

Is in favour of a gauge, 4½ inches in the barrel. Anything under this should be returned to the sea. The fishermen fished with rings and creals when he had first experience of the fishery, and they fish with both rings and creats now. The creeks fish in deeper water. There is a practice here of keeping lobsters in ponds till they are wanted for the market. Does not approve of lobsters in ponds fill they are wanten nor the market. Area out approve of this practice. The lobsters in these ponds are inferior to those obtained in the sea. They don't get sufficient nouralment. Tried a pond himself for one year, fully three quarters of a mile long by half a mile bread. It was an arm of the sea. Had 7,000 lobsters in the pond. The London agents complained of the quality of the lobsters from this pond and from other ponds in the neighbourhood. The lobsters in such a pend would cat each other and each other's spawn. Got 1,500 fewer lobsters out of the pend than he put into it. In consequence he gave up the pond after one year's trial. Has shipped, on an average, 8,000 lobsters a year from Stornoway. Believes that lobsters

spawn all the year round, but especially in the summer months, when they

rebibition of

cast their shells, and are in a weak state. Thinks the poud system so prejucast their sheals, and are in a weak state. Thinks the poun system so prequedicial that it should be prohibited. The lobsters, after being a month or two in the pond, are undit for human food. London is the ohief market, but a few boxes are sent to Manchester, Liverpool, and Birmingham. The price of lobsters, during his experience, has risen from 6s, a dozen to from 7s, to 20s, according to the season of the year. (By Mr. Walpole.) Proposes legislation to make it illegal to keep lobsters in a pond. The lobeters may be kept for a week or for a fortnight without injury. If there was a close season for four months this legislation would not be so necessary. He would do away with the pends, however, because they are injurious.

Thinks that, if the practice of keeping lobsters in ponds is proved injurious, Parliament is entitled to put a stop to it. Proposes that a clause should be inserted in an Act of Parliament making it illegal to have any pond in which lobsters could be kept. ARCHIBALB MUNRO (exercined by Mr. Walpole). Manager at Stornoway for Mr. Maclachian of Glasgow, who is extensively engaged in the lobster trade. Has been five years in Mr. Maclachian's employment, and is a native of

Stormoway. Ragages boats to fish for them and purchases lobetors from other fisherman fishing on their own account. There are sometimes three or four boats engaged, and from 15 to 20 boats from which he buys. Some of these boats fish on the west side of the Lews near the Butt, and others in Broad Bay, north of the peninsula, near which Stornoway stands. Thinks that there is no decrease in the number of lobsters in either place, and the lobsters are as No decrease. large as they used to be. Has no falling off to complain of. For the last four years has on an average sent off 700 dozen a year from Stornovay. They are sent by the "Clansman" and "Clydeadale" to Gisagow, and thence by railway

Senson for.

to London. The fishing season commences about 1st September. Commences buying soon after that date. There are very few lobsters taken bere after February. The fisherman do not prosecute the fishery after that time The weather is broken up after this time, and the lobsters are less plentiful

They are habitually in the deep holes. The fisherman do not, on this portion of LOBSTERS. the coast, resume fishing till the following September, but in deep water lobeters are fished all the year round, and they are stored in ponds till the weather is suitable for carrying them. Is in the habit of taking all lobstere over 42 Game. inches in the barral; under that size they count two for one. The very small ones, 2 to 3 inches long, are rejected. These are very numerous in certein calm localities near the ebore. Is in favour of returning all lobsters under 45 inches in the barrel. Is in favour of a close season for lobsters. It should com- Give time. mence on 1st May and terminate on 30th September. Is in favour of inclunumer on 1st May and terminate on 30th September. 13 in Broure of ment-ding September. The close season must apply to the sellers as well as the takers. It must therefore be universal. Thinks, however, it would be <u>Theorems of the September of Septemb</u> enforce a local close season. The Bernera men flah all the year round. The lobsters which they take in the summer months are placed in pends and kept. Kept in genule. Considers this practice prejudicial. The fish do not get sufficient food. They are artificially fed in these ponds. Believes that there are two of these ponds, one belonging to Mr. Morrison, one to Mr. MacLeod. There are about 7,000 one belonging to Mr. Moriton, one to Mr. MacLeod. There are about 7,700 blotters in the point at Bermers: Has bought toblester from the pond, and from that they tilt not stand the carriage, but died. The ponds pay because more account we have been also been about the ponds pay because the ponds would be closed as a matter of course. Thinks, however, it would be noted to present the ponds and the ponds would be closed as a matter of course. Thinks, however, it would be necessary to supplement the close season with kightisting robbiliting the fish being kept in ponds. Gave up pond lobsters because they wouldn't carry. They are now sent direct to market by the owner of the pond.

Does not deal in crabs; they don't pay to carry. He sends away 8,000 Supply of lobsters, Mr. Smith 8,000, Mr. Morrison 7,000, and other dealers 8,000. There

are fully 30,000 lobsters go away annually from the Lews. There are more than 40,000 lobsters caught annually in the Lows.

JOHN MCSWEEN (exonised by Mr. Yosse). Is a fisherman in Stornoway. Has fished for lobsters for 15 years. Gets as many now as he got 15 years ago. No decrease. They are as good and as large. The fishermen use about the same number of They are as good and as large. The fishwaren was shown the "most number of more of an they under. They fish to both all size of Florid Bay, They are a shout. Journal 15 beats finding clean.

15 beats finding clean.

16 beats finding clean.

17 beats from the proper of the state coast. In a dozen lobstere they get two or three under 45 inches in the barrel. Gauge. Is in favour of keeping such lobsters. Would put back all below 2 or 3 inches

is in tarvoir on account state of no uses to him or mybedy else.

John Macnosalo (essessed by Mr. Wajole). Fisherman of Stornowny.

Has heard Mr. MacSworz's evidence, and appress with him. Has been fishing for No decrease. lobsters eight or nine years. There are as many lobsters as there were, and as large. Is in favour of a close season commencing let April and ending 30th Close time. as arge. Is in havour or a cross season commencing is a April and enuming other Greek Explaints. In infrare or for termining small loberters to the sea. Gets three or four lobetres in every 12 under 4½ inches in the barrel. Wouldn't put back Gauge. lobetre under 4 inches in the barrel. It would be a very great reduction to throw back all under 9 makes. In the long the contract of the contract of

Angus McLeon (cassified by Mr. Young). Has been for 12 years a fisherman in Stornowny. Fisher in Stornowny Bay." Does not get more Derivans than half as many lobaters as be cought 12 years ago. Thys are about the same size that they used to be. There are 30 creeks in each bost. There are two hands in each boat. 12 years ago there were four hands, and they used 60 creels.

12 years ago lobsters were 9s. a dozen, the year after 7s.; they are now 10s. The Price.
fishermen begin to fish in the latter end of September, and they leave off about Glose time. the 1st February. After that the lobsters are scarce, and they don't fish for them. Is in favour of a close season for lobsters. It should commence on the lat April and end in September. They do not get any lobsters in these months.

LOBSTERS.

The lobsters are generally large, but there are sometimes four or five in a dozen under 4½ inches in the barrel. Would put back all lobsters under 4 inches. They get very few of them under that size. The water in the Bay of Stornowsy is very shallow. Outside the bay they fish in 10 fathoms water. Never saw any ponds for keeping lobstees. There are some on the west side of the island. They take a good many crahs, but there is no sale for them. They are large

CRABS crahs. They would on an average measure 6 to 8 inches (By Mr. Walpole.) Never fishes on the west side of the island. Was fishing on the Shiant lates 10 years ago. Was fishing for lohaters. They are fine lobsters but scarce. The lobsters get very scarce in February. They are most mancrous in October. They get less every month after October. The roots about here LOBSTERS. Beason for. do not extend very far out to see. There are very few lobsters about here. Fished in Broad Bay one year, but was too late. Does not go there because

Requestan?

there are too many boats at it. There is no other Stornoway heat in Stornoway Bay. A stranger from Peterhead came here a fortnight ago. The stranger is a higger boat and goes further out to sea. Always finds some spawn lobaters, even in the winter. There are four or five in a dozen. Does not think he compts 40 dozen lobaters last year. During a portion of the year he is not lobater finding, but works as labourer as well as fisherman. Is also a pensioner from the Navy.

Newhaven, near Edinburgh, Monday, 23rd October 1876.

PRESENT:

FRANK BUCKLAND, Esquire.

CRABS. Decreased size

JAMES WILSON. Has fished for crahs 30 years. There are just about as many now as ever, but the average size is diminished. They are mostly caught in April, May, and June. The close time should be July, August, and September. The largest crah would be about 54 inches across the back. JAMES FLUCKER. Has fished for crahs 60 years. There are fewer crabs,

Decrease.

because there are so many eatthers at work. Formerly he used to take ten or twelve dozen in a day, now he eatthes shout half this number. There are very few lobsters about Newhaven; but crahs of the hest quality are caught there. No creek are used, only note. These are not baited; they are set in a line with corks at the top and stones at the hottom; they stand up like a hedge. The mesh is from 25 to 3 inches, and about 4 feet in height. Each not is 50 fathoms long. About 20 hosts fish for embs from April to June.

Soft.

A few old men fish from June to August. All soft crahs should be returned to the water without injury. Sometimes crabs are so soft that they cannot be lifted out of the net; the crabs get so entengled in the net that it faires a long time to get them out. A gauge would not act at Newhaven, because the erabs get so tangled in the net. A full crab is 3 inches, the smallest is shout 3 inches.
The months of April, May, June, and July should be open months for crab fishing.

Garge Closs time.

WILLIAM WATSON. Fifty years ago crahs used to be more plentiful than now. There are very many more catchers. Formerly there were three or four only, now here are 16 or 16. Before the railway came the crabs were only sold in Edinburgh. Now the men can sell any quantity. Nets for catching crabs have been used all his time. The ground for flahing the crabs is from Musselhurgh up to Queensferry, about nine or ten miles in length, and all along the shore. The nets are

Nets.for.

hauled into the hosts and small crabs are thrown away. He will not give any opinion about the gauge. Crahs are never used here for bait, as there are plenty of mussels. Decrease. JOHN LISTON, Has been fishing orals for 25 years. They are less in number because there are so many fishers. Crecks will not not in this district, the water is too shallow. The bottom is composed of hard rook and there

is not much sand. Is in the habit of throwing over all little crabs because they are no use for sale or hait; he heaves them over alive if possible. smallest crab caught should he 3h inches. There are three men fishing each hoat. There are not many lobsters about Newhaven, it is not worth while troubling for them. It is a great deal of trouble for the fishermen to pick out the crabs which have been entangled in the nets. It has cometimes taken him

CRABS.

the whole day to pick out the small crabs from his nets.

use wnote day to piece out the music crite from an effect.

Mrk. Astrick Evolution. He has been and adder in earlie for many years. When
the wars gift recollects that it does not adder in earlie for in the notes and rethe was gift recollects that it does not the month of April. Crabs begin in
Agril and go not a August. After Agril to the two month of April. Crabs begin in
the Agril and go not a August. After Agril to the control of April. Crabs begin in
the Agril and go not a August. After Agril to the core and the second of the
tild Agril again. Lest year she got earls is inches across. The smallest earls

see 5 latches, they are of no use, the men put them back in class of the day. that they should grow to maturity. A 4h-inch crab is a good crah. The fishmongets require two crabs for one, according to the claws. If a crab wants a claw mongers require two earby for one, according to the claws. If a cranwants a claw the inherman has to give an extra earb to make up for it. About Anstruther the small earls are called poults. If any lobaters are caught at all they are large. Grabs have become much desers. When she was a girl she paid 10d. Priss of a down, now she pays 3a. 6d, a down. More crabs are caught in Danhar than Three years ago saw 17 dozen of small crabs sent to market in a herring herrel. She crabs have small claws and large shells. He crabs have very large clays and small shells. All crabs below 35 inches should be returned to the Gause.

Mrs. Smith, fishwoman. Agrees with Mrs. Flucker. The smallest crabs should measure 3 inches from the eye to tail or 5 inches along the back. 3 inch crab is very good to eat; crabs this size are worth 2s. a dozen or 2d. each. The small crabs are called cavies; if a orab wants a claw the fish merchants rice success of the control of the c

Mrs. MAYNE, of the Peacock Inn, Newbaven. Buys crabs and lobsters for

the hotel. Both cashs and loisters are getting very scarce, and require a close Decrease-time. When the oysters come in the ershs go out. The crabs are best in time. When the cysters come in the crush go out. The cruse are but in harvest time. There should hen of shing from August to April. It is a wicked fluxe time, then go makes small crubs. They are only given to children to pixel with. All crubs under 5 incides abould be put hack. The white crubs with gases. transparent shells, if holich, are found to be all water. They are unsessonable

and should be put back. A crab is called a parton here. The red and green crabs-are called cavies.

They are not partons.

Mrs. CARNIE, dealer in crabs and lobsters many years. At certain times of the year the little crabs are better than the big ones, because they have filled up their shells. 5 inches is just little enough for a orab. The little ones should be Gauge. put back and be left to grow. Has seen barrels full of small crashs in the Rdinburgh market. Thinks that all soft crabs about d be put back into the seys. water alive, and that all crabs under 5 inches should be put back at all times

on two year.

The test lay weight will not not, because it cannot be ascertained what crabs

weigh until they are boiled. Crabs have doubled their price these last three
weigh until they are serve, and have been fished out. It lass ster root coullings Exessing of with their stomach full of crabs.

The Tarbert Hotel, Tarbert, Harris, Monday, 23rd October 1876.

PERSENT :

SPENCER WALPOLE, Esquire.

NORMAN MACLEON, junz. A general dealer and fisherman at Tarbert. Has been in business 17 years. Has been dealing 8 years in lobsters. Buye from the fithermen, and sends them away by the "Dunars Cartle" and from an interment, and sends toom away by the Danies of the will be a controlled the controlled

LORSTERS. Supply of.

Decrease

soos on having till the 1st May. There are six other dealers at Tarbert buying lobetere. His business is bigger than the othere. The six other dealers are sending away a good many, and it is estimated that 40,000 lobsters are sent annually from Tarbert. Two of the dealers send the lobsters away throughout the year, observing no close time at all

The principal lobster grounds in the neighbourhood are off the Island of Scarpa, but lobstere also come from the East and West Lochs. The Harris fishermen, too, go both to Skye and the Lews to fish for lobsters, but they bring them to Tarbert to sell. There are some 44 boats fishing in East Loch Tarbert, for lobsters. 30 of these are from Scalps alone. Can recollect the time when there was no fishing for lobsters in East Loch Tarbert. There are about 16 bosts in West Loch Tarbert; nine of these come from Scarpe. The 16 boats on the West Loch esteh more than the 44 on the east eide.

Mr. Maclachian, of Giasgow, was the first man who started the fishing for lobsters in East Lock Tarbert. He cent a smack down about 22 years ago. The men field for him in the winter season and spring. The fishery was very The first account of min in the concession of the fourth port so many—as there are now. They fished with creeks. The five boats started at that time caught as many lobsters as the 44 boats catch now. Thinks, therefore, indeed is sure, that the lobsters are falling off in numbers in East Loch Tarbert. There is too

much fishing. The lobsters are also falling off in size. They haven't time to come to maturity. Thinks the fishing gets worse every year. The proof of this is that the fiebermen have to leave the Harris coast for the Lews, Skye, and North and South Uist West Loch Tarbert, was fished before the East Loch fishing commenced. The

Will 10th Lifebra, was muon necrotine asut Locit intuiting commence: The State of the Commence of the Commence of the Commence of the Commence falling off. I not detected manage. The fallery in New Lock Tarbert is also falling off. I not not commence of the Commence of the Commence of the Integer now. Scarps is the best plotes, but it is also folling off. The fall-memon there only fish from Desember to Way, and news with the reset of the Scarps belongs to Mr. Scott. He has only 16 tennuts, and they have mode Scarps belongs to Mr. Scott. He has only 16 tennuts, and they have mode until derangement among thermally only to fish the see months. The arrange-mental derangement among thermally so only to fish these months. The arrangement is kept. The coast is too wild for a stranger to fish there. It is only, however, on the coasts of the island, which is a small one, that the arrangement is kept. All the surrounding mainland is hard fished. If it were not for this, Scarpa would show no falling off. The Scarpa men generally get some good weather for fishing in February, March, and April, and they can fish when the wind is off the land. During the rest of the year some of the Scarpa men

go away to the herrings, and others are preparing potatoes and peats. This

Scarpa arrangement has been going on for some time. The Scarpa men consider that they can earn more money, and do better, by confining their own fishing Is in favour of a six months' close season. Would commence fishing at the Close time. end of November, and end at the beginning of May. This is only five months, but it is long enough. It is no use fishing in September and October, because the market in those months is always choked with Norwegian lobsters. Thinks

that a law of close season could be corried out. Would himself inform against an offender. Some of the lobeters caught are very small lobeters; those under 41 inches in the barrel count two for one. Would be in favour of returning all these small lobsters to the eea. Thinks such a rule would be for the benefit of the

fishermen. Thinks that if a close ceason were made as proposed, and a gauge instituted, the fishery would recover. The lobeters in Uist are fished all the year round ; can't say bow the fisheries there are doing, ANGUS MACLEOD, partner with Norman MacLeod. Agrees that lobeters are

damensing, and concurs in the recommendations of the provious witness both as to close season and gauge. The "Dunara" steamship comes once a week till the New Year. From

January to March it comes once in ten days. The "Clydesdale" also comes once a formight all through the winter.

Tarbert Hotel, Tarbert, Harris, Tuesday, 24th October 1876.

PRESENT:

SPENCER WALPOLE, ESQUITE.

WILLIAM MAGNUERS, for 25 years luyer for Mr. Madshelha, of Giasque. LON-Lohters, 25 years 100, were 50, 100, and 12. The price of lohiters has since 27-to-100, 100 to 1 LOBSTEES. Salesmen on their own account. Pays away shout 1,600t. a year for lobsters. Buys the lobsters from fishermen both in the East and West Looh. About 20 years ago the Irish heats came; they cessed to come about 10 years ago. Creeks. The Irish first introduced the creeks. The supply of lobsters is not so great as it was, and they are not so heavy. One dosen lobaters 30 years ago would weigh as heavy as two or three dozen now. Thinks the decrease is due to the fishermen catching them large and small, and to their cotching them when the fish are breeding. Is in fevour of a close season in May, June, July, and August. Is in favour of returning all lobsters under 8 inches to the Gauge.

There are 10 times as many heats es there used to be, but they do not carn such good wages as they used. The Scarps Island men are the most experienced fishermen in the whole country, and if others keep clear of their ground they won't begin fishing till November or December. They can't keep the strangers off the ground.

RODERICK MCKAY. Has been fishing for lobsters since he was a boy, 30 or 40 years ago; fished at Scarpa. When he began fishing was employed by a London company. Used to commence on the 1st May, and go on till the Sangle. London company. One to commence any in welled smacks, and so lived in end of August. The lonsters were seen any in welled smacks, and so lived in hot weather. The weather during the winter months was too rough for the smacks, and the fishermen could not fish in the winter with hoops. Went on for the London company for six or seven seasons; the company then failed. Soon after that, hegan fishing for Mr. Maclachlan, of Glasgow, who commenced lanying 25 or 26 years ago. For Mr. Maclachian the flahermen flahed in the winter months from November to May. Mr. Modachlan sent them away in hoxes by Biomere. steamer. Went on for Mr. Maelachlan for 20 years, and during the lest three or four years has been sending them himself by steamer in boxes. Sends his own teke, and buys from other fishermes. Begins sending in September and goes on till May. There are only a few fishermen fishing lossters in the summer time. Het wester.

Sends lobsters away himself in summer time. Sends them to London and Mandought to be stopped. Would like to see it stopped. There are not so many lobsters in any place as there were 40 years ago. If Decrease. they had had creels at that time they could have got three times as many as they do now. The lobsters are also smaller. The London company would

not take any lobster under 8 inches for a baif, or 9 inches for a whole one. Ls in favour of a close season commencing on the 12th May, and would Gase star-resume fishing on the 1st September. Would throw back all lohsters under Gauge.

8 inches. The Scarpa men stop fishing in the summer months. But they can't stop other men coming and fishing the neighbouring grounds. The Scarpa men make more money by the lobsters than any other. Lobsters are more plentiful at Scorpe than at any other place near here.

DAVIN MACHONALIS. Has been fishing for lobsters for two years; fishes Western The Scarpa men begin fishing in November, and stop at the or course. The course and begin are is so rough that they keep other men off it, but the strangers come and fish from the mainland. The coast is very rough, but the fishermen watch for fine weather. In north-east and southeast winds they can always fish. The Scarps men are all against fishing in

summer and harvest time, and he agrees with them. MALOUM KARE. Hes been fishing for 46 years for lobeters and all kinds Basts of fish in the West Loch. There were shout 13 boats 46 years ago in the West Lock. Does not know how many are there now. Gave up fishing

LORSTEDS Close time. Spounding.

12 years ago. There were 30 times more lobsters when be began fishing 46 years ago than there were when he left off 12 years ago. Attributes decrease to summer fishing. The fishing now commences in October and ends 1st May. Some boats, about 20, go on all through the year. The fishing ought to begin not sooner than October, and close at the end of April. Has been shoveling lobater-spawn overboard found in herring nots in September. Fished 46 years ago for the London company. They fished in the summer months then. That was the first commencement of the fishery here. At that time the lobesters were so numerous that they could be picked up dry on the shore. The London company threw away every lobster under 9 inches. Is in favour of the same

rule now. EWEN MACDONALD. Lives at Tarbert. Has been a fisherman for 14 years. Fishes about Loch Tarbert. Hegins fishing about the end of October, and goes on to the end of April. There are five or six hoats fishing afterwards

Decreases.

in the West Loch all through the summer. There are not half so many lobsters as there were 14 years ago. There are about the same number of boats that there were 14 years ago. Lobsters 14 years ago were 12s, to 14s, a dozen. They are now about 10s., but they will get dearer in the vioter months. Is in favour of a close season commencing 1st May and ending 31st October. Thinks the fishermen would agree to this. Is in favour of returning all lobsters under 8 inches DONALD MUNRO. Fishes with Mr. Macdonald. Has heard his evidence

Close time. Panda.

and screes with it. ROBERICE McKAY (recalled). Is in favour of prohibiting lobsters being

kept in ponds in summer months. These ponds encourage the fishermen to fish in the summer, when the lobsters are so light that they are not worth fishing for. There is a pond here near Clure helonging to Donald MacLeod, Junior.

Salen, Mull, Tuesday, 24th October 1876.

PRESENT :

ARCHIBALD YOUNG, Esquire. DUNCAN CAMPRILL, residing at Salen. Is in business with his father,

David Campbell, fish merchant, Salen. Has had 10 years experience in the lobster trade. Lobsters have fallen off both in number and size since he was first in the business. There are fewer hoats and men now engaged in the lobster fisheries than there were formerly. The prices in London are not equal now to what they were. Creels have been used as far back as he remembers. Never saw rings used. Thinks that the decrease in the number and in the average size of lobsters has been principally caused by over-fishing. There should be a close time and a gauge combined to counteract the effects

Close time. Gones.

of this overflahing. These will be the most effectual remedies. The close time should be from let June to let September, and the gauge should be 8 inches in total length, or 4 inches in the harrel. Both the close time and the gauge should be enforced in the public markets under a penalty. The penalty should be against taking, buying, or selling during the close months, and against taking, buying, or selling any lobster under the prescribed gauge. Has heard the fishermen discussing the question of a gauge and a close time.

Posds.

Does not recommend the use of artificial ponds for storing and keeping lobsters; his father, Mr. D. Campbell, who has had great experience as a lobster fisher, once had a large boat which was decked over, and into which the water flowed. This he used as a sort of lobster preserve, and in it he kept and stored lobsters. The lobsters were fed, but the experiment proved a failure. The lobsters got weak and watery and out of condition, and were unfit for the market. A close time extending over June and July might possibly interfere with the fisheries on the west and south coasts of Mull, which are very much exposed; these fisheries are most easily prosecuted in summer. But there are times even in winter and spring, especially in frosty weather, when the fishermen can go on with their fishing on those coasts. Lobsters are often packed in teaboxes. There are from six to seven dozen in a tee-box. A good many of them are lobstern which count two for one, either from being under 4½ inches in the barrel of from wanting a claw. There are plenty of crabs of a good marketable CRARS size caught in the lobster creals around Mull; but they are too far from a mar-wat not carry, ket, and people hereabout won't est them. They are more delicate than lobsters. They won't keep good for much more than 24 hours.

Cockburnspath, Cove, Berwickshire, Tuesday, 24th October 1876.

PRESENT: FRANK BUCKLAND, Esquire.

WILLIAM WATTEY, station officer at Redheugh. Along the coast in the Cove district there is emb and lobster fishing. There are 21 fishing hosts at Cove, Roste. of which 16 are engaged in fishing for each and lobsters, crosb being prinof which I for an engaged in fitting for errols and lobatest, orable using principally sought after. The flux sees unto Edinburgh, London, and Manchester. Great see used, and not rets, in the Core to St. Abby Bland. A good meany of the Core to St. Abby Bland. A good meany of the size of the si be closed from May to September. The fishing has fallen off about one third.

A "full" crab would be 8 or 9 inches across the back. Crahs are not used for hait. Crabs of 5 inches and under go two for one in salling to the merchants. Soft crabs are put back into this water. Lobieves have diminished. The hottom is rooky. The fishermen begin fishing with creeks on 1st October and leave off 31st July.

Coldingham Shore, Tuesday, 24th October 1876. PRESENT :

FRANK BUCKLAND, Esquire.

WILLIAM WILSON. Has fished for crabs for 28 years out from Coldingham Wilbriam Wilson, russ mostly of sand, and 30 to 35 fathoms deep. The ground extends for two square miles. Ceshs this year have not been so plentiful as some Decreese. years, but sometimes they have been scarcer. Has fished for crabs from September years, Ins isometimes two between earners. Has tassed or creak treum September to June for 14 years. The boats from Colkingham with 30 men are engaged in emb fitbing. The population is 930. They flat with orrein which are blood 30 fixbon apart. The beat earn 77.00 along-line, or about 50 oreside soils. The deep water fishing lasts from September to Mindelley or deep the second of the second small number of creels in the shallow water in the cut of manue, we shallow water fishing generally lasts from April to end of May. The largest shallow water fishing generally lasts from April to end of May. The largest number of creek he ever saw in a creel was 63, and that was in 1865; the largest number this year has been 40, counting large and small. The largest number this year has been 40, counting large and small. The largest largest number this year has been 40, counting large and small. The largest largest number this year has been 40, counting large and small. was 10 inches across the back, and the smallest three inches. Witbin the last few days many of the crubs caught have been small and soft.

Soft crabs are mostly caught in September, October, November, and Seft.

December. These are generally put overboard,—some into the sea, and some into the harbour. As the season advances and the crabs get harder, many into see narrour. As the season aurances and the cruss get marker, may of them are sent to the market. The markets the fishermen send to are Manchester, Locks, and Birmingban, and sometimes London. Complaints

have been made of late about soft crabs. Out of one boat's catch lately of 10 barrels of crabs 6h harrels only were good. Is strongly of opinion that all the white crabs should be returned to the water. Can tell white crabs by the claws being transperent, and these

CRARS. Soft.

these ceabs large numbers of uscless crabs are destroyed that would presently he valuable. Has to pay for the carriage of crashs. Gets from 20s. to 22s, a harrel for good fish; but if a barrel contains many white crabs the merchant reduces the price. There should be a positive law prohibiting the destruction Used for buil.

of white crabs either by sending them to market or using them for bait. Very few white crabs are used for bait in Coldingham. Mussels and limpets are got for hait from Boston Deeps. The small crabs should be returned to the water; none under 4 inches should be retained. Big orabs bring more money per harrel than small crahs, but in the spring the small ones are the sweetest. A "full crab" would be 91 to 10 inches; sometimes crabs of 7 inches are called full crabs. The fishermen here market all crahs themselves; they have no agents. The salesmen do not complain of the small size of the crahs. No crab under 4 inches should be taken. A large crab is called a "pod," No crab under 4 inches should be taken. A large crab is called a "pod," a small one a "partan." The fishermen generally put back all crabs mader 4 inches of their own accord, and do not put them in the barrels. There should be no close time for good. crabs at all, but there should be a close time for white crabs, and small crabs under 4 inches, all the year round.

Close tiess. Seldom gets any female crabs at all, because when they commence to spawn they are sanded up. At the end of October the cruhs commence to sand up Spanning. LOESTERS.

they are snaded up. At the end of October the crush commence to sand up in about 30 fathoms, and remain there until the spring, when they hatch the young from the eggs. The smallest crushs be ever saw were in May and June. These were Zoses. The spaws is beginning to come on to the tail now (October). As to lobsters sometimes as many as one to the creel are cought, sometimes in 40 creek there are only I'l botters. Seasons vary. Lobsters under 41 inches in the barrel are worth little, for they are sold by the weight. The average size of lobsters is 6 inches; the merchants' gauge used to be 44 inches in the barrel. Off the two miles square which are flahed outside Coldingham, between 2,000 and 3,000 barrels of crabs have been caught and sont to the market every year for 10 years. When the crabs go to the deep water, the fishermen follow them. The enemies of the crabs are skate, colling. whiting, and haddocks.

CRABS. Bacules of LOBSTERS.

There are still plenty of crabs; about as many are caught now as were taken 10 years ago ever fishes for crabs with nets. JOHN RAY. Has been fishing for lobsters for 55 years, winter and summer. There are as many lobsters now as there were years ago, but there are fewer

No decrease. Gavge. Beft. Desrease.

crabs. Would throw back all lobsters under 41 inches in the barrel. Berried hems are found all the year round, and are the most valuable. Lobsters are all sent away alive from here, and tied, not plugged. All white and small crabs should be put hack to the water. JOHN PURVES, fish curee. Has been 20 years in Coldingham. Crabs have fallen off about a third. Cannot tell the cause. Agrees that white and small crabs should be returned to the water, but does not approve of a close time. Considers a 5-inch crah a full one.

Olose time.

The gauge should be not less than 4 inches.

WILLIAM WILSON (recalled). Is well sequainted with the neighbouring village of Eyemonth. Has met with and consulted with several fishermen of that place. They are all of the same opinion as the Coldingham fishermen. They do not think there is any need of a close time at Eyemouth for good crahs, as they are still plentiful, but they much wish to have a law to prevent the destruction of small and white crabs, either sending them to market or for any other purpose. The reasons they have for objecting to a close time are that there are a great many old men who are unfit to go to other flaheries. Boys also may have a widowed mother, and, it may he, a few younger members of a family dependent on them for their living. A close time for three or six months in the year would throw many of these sort of people out of work and tend to hurden the rates; another reason is that a close time would have a tendency to drive all the able-hodied men out of the trade of crab fishing ; should the fishery be closed for three or six months as some would wish, all that were able would have to take themselves to other fisheries that could not be dropped when the crab fisheries opened. For this reason crah fishery would be left entirely to old men and boys that are not fit to prosecute it to the extent that it should be, and the markets would be worse supplied. There

are hundreds of miles along the coast that are swarming with crabs where none yet have ever been taken; these districts could be fished at the rate of a thousand barrels to the square mile yearly, that is in places where there is a sandy bottom and the water is from 30 to 40 fathoms deep.

Has watched the evidence all the way along in the papers, and sees that many wish for a close time in the months when they themselves are not in the habit of fishing. On the 16th October he marked the backs of a few crabs Migration. with his initials, "W. W.," and put them back inshore. On the 27th of November these crabs were caught again two miles seaward, having passed over eight fleets of creals. One crab was caught in the 9th, and another in the 10th feet. The creeks are let down to the bottom by a rope; the rope is Creek-attached to a long stout rope which is buoyed on the surface of the water by corks; this rope is called a measurager. Bighty creeks are fastened to one measurage. The creeks are placed 20 inthone sport, so that the measurager would be 3,200 yards long or nearly two miles. When the men flah these creeks the boat travels along the messenger, and the crosts are drawn on board over the bow to be examined, the crabs taken out, and the creek returned over the

set 80 crosts, and two set 40, making 640 creels in all. At Dunbar each creel has its own messenger More crabs are caught here in winter than at any other places round about. Seesa for-The dead crabs in the harbour are those which are found dead when packing the barrels. These are soft crabs, and the hard ones crack them when packed Soft.

ROBERT THORNUAN. Has been a fisherman at Coldingham for 60 years. Before the railway was opened 18 years ago, the fishermen never fished for Zailseaus. crabs, as they were then of no use—there was no market for them. Since they commenced to fish for crabs the inshere fishing has diminished. Does Decreuse. not know anything about the deep-sea fishing for crabs, having never fished far from the shore. Agrees that white and small crabs should be put back. Soys. Always puts back small lobsters under 3\(\frac{1}{2}\) inches in the harrel. They are not used as bait for crubs. Small lobsters have been put back ever since he knew. Crabs are not cannibals, and will not enter creeks baited with broken crabs. If a lobuter entered a creek, eachs would not enter it. A white crab is Batt.

unfit for human food. Cuttle fish are capital bait for crabs. It takes from November to February for crahs to "fill up."

in the barrels.

Oban, Wednesday, 25th October 1876.

PRESENT:

ARCHIBALD YOUNG, Esquire.

ALEXANDER CARMICHAEL, fitherman, residing in Oban. Has been a fisherman for more than 30 years, and is well nequalated with the crab and lobster fisheries about the islands of Mull and Korrers. There are plenty of crabs in this neighbourhood, capecially about the island of Kerrers. They are fine large crabs, fit for the market; but the only market there is for them is nne usego erane, in nor sue massers; outs use our massers taters as nor suem as Oban, and that only at certain acasons. They are in the best condition in Reven.fer. October, but good also in August and September. Would have these months Octoors, out good aso in August and dependence. "Yould have used months for the fishing smoon, and would observe the rest of the year as a close time. There should also be a gauge for crube. All embs under 5 inches should be Gauge. Testured to the water. The small canha zero stude of for fait bereabouts; but they are used for that perspective; but they are used for that, purpose on the work coast of Mult. The men don't find specially for erals, but great numbers of order as taken in the follower credit

-so many that the crabs are falling off both in number and size. Lobsters are to be found all round the coasts of Mull except from Salen to Loeb

Don; but they have decreased since he was first a fisherman, both in number Decrease. and size. Would have a close time for lobsters, as in the old Act of George the and are. Would have a gauge. Every lobster under 4 inches in the burrel Gauge. Should be returned to the sea. The prices both of crabs and lobsters have

CRAPS.

stern of the boat rebaited. At Coldingham there are 10 crab boats, of these seven

LORSTERS.

CRARS.

LOBSTERS.

CRABS Close time.

Gauge,

Season for. LOESTERS. Decrease.

Close time. Gauge.

doubled since he first remembers the fisheries. Has never seen rings used for The shores in this neighbourhood are chiefly rocky. fishing, only creeks. There are not as many bosts and men engaged in the fisheries as formerly. It would not pay them, lobeters and crahs are gesting so source. The best lobster fisheries in Mull are on the south and west coasts.

DUGALD MACKENETE, fisherman, residing in Oban. Has been a fisherman

for about 30 years. When he began fishing, crabs were twice as plentiful as at present. Thinks they have become comparatively scarce owing to the great number taken in the lobster creeks. The men never return any of the crabs taken, but keep large and small. There are fewer hoats and men now than formerly. but each host curves more creeks. One boat sometimes carries 60 creek. There should be a close time for crabs. They should only be fished during the months of July, August, September, and October, and the rest of the year should be observed as close time. There should be a gauge, and all erabs under 5 inches should be returned to the water. The gauge and close time should be enforced in the public markets under a penalty. Thicks that if a gauge were enacted the lobster fishermen would put back the small crube taken in their crosls. Crahs are dearer now than formerly. Has seen 1s, a dozen only paid for smallish crabs; now 1s. apiece is sometimes given in Oban for large crabs. Crabs are now in about the best condition. The best places in this

neighbourhood for crahe and lobeters are Scarba, Jura, Riedale, Korrera, and the couth and west coasts of Mull. The south and west coasts of Mull can only be fished to advantage in summer time, they are so exposed to the Atlantic gales. Lobsters are not now balf as plentiful as when he was first a fisherman, and fewer boots and men are engaged in the lebster fisheries. There is only one third of the number of boats, but each boat now carries more creek than formerly. Only one anack now comes here for lobsters, while long ago there used to be three or four. The falling off in the fisheries accounts for this. Would have a close time for lobsters in June, July, and Angust to be enforced in the public market, combined with a gauge of 4 inches in the barrel to be enforced in the same way.

Mish Nish Hotel, Tobermory, Mull, Wednesday, 1st November

PRESENT:

ARCHIBALD YOUNG, Esquire.

ARCHIBALD MACLEAN, general merchant, residing in Tobermory. Has been acquainted for 20 years with the lobster fisheries in Mull, Rassay, Skye, peen sequantized for any years with its closurer innerties in white, Kasaay, SKYF, and the Lower. This year has been an exceptionally good year for the lobster fisheries around Mull; but, previously to this year, there had been a great failing off, probably to the extent of a fourth. This decline commenced about six yours ago. The lobsters have decreased in average size. The two-for-one lobsters form easily half the whole take now. Overdahing it the chief cause of this decrease. Creele have been used ever since he knew the fishings; never remembers seeing rings used. Twice as many boats are engaged in the fisheries as when he commenced business, and these hoats carry three times as many crooks per boat no were formerly carried. It is therefore abundantly evident that there are not as many lobeters in thece acae as there used to be, or else far more would be got from the increase in the number of bosts and creeks. Once sold a dozen lobsters for 7L. They were micked lobsters, weighing from 7 to 10 pounds each. In his early days the prices of lobsters in London and the English markets were higher than now; but the prices in the Highlands are bigher now than formerly. Is in favour of a close time for lobsters, from May to Sentember inclusive. This would be for the general good of the fisheries, though it might be hard upon the flahermen on the Atlantic coast of the Long Island and similar stormy localities, where the

flahing is chiefly carried on in summer and autumn. Lobsters spawn all the year round, but chiefly in the months of May, June, July, August, and

September. Does not think that the enforcement of a close time through the markets would be sufficient. Would prefer to have an officer specially appointed

Close time. Stateming.

Decrease.

Brats.

to see that the close time was strictly observed. One such officer would be IOBSTERS sufficient for the whole of the island of Mull. Would also combine with the closs time a gauge for lobsters. There should be a Such barrel gauge, and Gauge. lobsters of 4½ inches in the barrel should count two for one; but all lobsters below 44 inches should be returned to the water. The same officer who sees to the enforcement of the close time might also see that the gauge was adhered to to extraorement of the cases time swart some one than ton genige was achieved to during the copin reason. If a goal even fixed for Philish libesters, would admit no foreign lobesters into the horm some fixed to the contract of the contrac in these ponds are forced, by star-ration or insufficient food, to prey upon each other. They get watery, out of condition, and unfit for human food. Has no doubt that it is quite possible to clear out a lobster ground of limited extent so as to render it not worth fishing. Has known localities where this has taken place. Thinks a proof of this is that, in the end of the season, the has taken place. Thinks a proof of this is this, it work on spots where in the fielermen will scarcely get a dozen lobsters in a week on spots where in the world per a dozen in a day. Very fine lobsters beginning of the season they would get a dosen in a day. Very fine lobstees are taken in the mouth of Loch Sunart off the Sound of Mull. Has a dozen

are taken in the mouth of Loch Sunars off the Sound of Mull. Has a dozen just now in his shop weighing upwants of 60 pounds. The lobsters from the Island of Barrs are even fluor. Very few are taken there under four pounds. DAVID CASTPRIAL fall, membranks, Salen. Has been sequented with the DAVID CASTPRIAL fall. The CASTPRIAL fall of the CASTPRIAL fal more than 30 years, since 1844. Lohsters have diminished, both in number Decrease, and size, since he began business. The London prices were higher formerly and size, once he began business. The London pieces were higher formerly than as present; but the prices in the Highlands are higher now than formerly. Price. Hes got as much as 3c. 6d. and 4c. a piece for lobsters in the months of February and March. From 1847 to 1855 was the time when the prices were highest in London. There are scarcely half as many boats fishing now as there once used Basic. to be, but each boat carries more creeks. Formerly each boat carried from 18 to 36 creels, whereas now each heat carries from 60 to 80. If lobsters were as plentiful so they once were, the improvement and increase in fishing gear should produce more fish. Thinks that the principal cause of the decrease in the number and average size of lobsters is fishing during the months of July and August. Lobston breed all the year round, but it is in these months that Spessing. the spawn comes to maturity, and therefore there should be a close time in July and August. Does not approve of the close time from 1st June to 1st Geose time. September, enseted by the old Act of George II. Remembers Lord Streethallan giving him a copy of that Act; but it was never observed or enforced here. Would restrict the close time to July and August. Would not be satisfied with enforcing the close time under a penalty in the public market. Prefers embreing it by an officer specially appointed. One such officer would be sufficient for Mull and Ions. Lobster fishing is not readily concealed, so the close time might be easily enforced by such an officer. Possibly the July close time might be felt as a hardship by the fishermen on the western consts of the outer Hebrides, but the longters caught in these remote places in July would not carry to the London market. The lobsters that count two for one, Gauge. that is, the lobeters under 4½ inches in barrel, are often under 3 inches in the larrel—in fact, of any size. This is a very destructive practice. Would prevent it by emoting a gauge; and would return all lobsters under 3½ inches in the it by enacting a gauge; and would return an loosters under 32 inches in the based. Would prefer a imbee, but whinks there might be a strong opposition to this among the fishermen. Would enforce the gauge, like close time, by the fishery officer. 12 fathous where is the despect they fish in here. Believes they might get bigger lobatem if they occasionally fished in dosper water, Does not approve of the artificial ponds. The lobsters in them are stayed and Ponds, pay on each other, and those that remain are in bad condition, unfit for human food. Once tried a pond on a small scale himself, by decking over a large skiff and keeping lobsters in it. Although he fed them, he found the plan did not answer. The lobsters were unfit for the market. The coming in of a large contignment of Norwegian lobsters to the London market at the same time as a quantity of Scotch lobsters, an occurrence which not unfre-

quently takes place, causes a glut in the market, and lowers prices. Has occasionally, owing to this cause, got as little as 1s. 5sl. a dozen for four boxes.

LOBSTERS.

The Mull lobsters are very good in size and quality, though not quite equal to those from the island of Barra, which he believes to be the largest in Southard The lobstere from the mouth of Loch Sunart are large and fine, but not numerous. Got one there last summer upwards of 7 lbs. weight.

ORABS. Will not carry. LOBSTERS. lohster grounds in this district are the south and west coasts of Mull, the Trishnish islands, the Torren rocks, and Iona. Does not think there would be much opposition to a close time among the fishermen here, especially when they hegan to see its advantages. There are a good many crabs about Mull; but they won't carry to the English market. They are chiefly got in the locator ereels. They are well sized, hut somewhat watery. Those got in the conster of the rocks are of better quality. Cruhs don't keep like lobsters; they are much more delicate. WILLIAM SPROAT, writer, procurator fiscal, Tohermory. Has been 30

Decrease.

years resident in Tobermory, during which time be has paid considerable attention to the lobster fisheries around Mull and the neighbouring islands. Lohstere are not nearly as plentiful as formerly, and, on an average, not above half the size. Places that were productive fishing grounds when he first came to Mull, are now almost exhausted; for example, Tohermory Bay and as far round as Caillach Head. Is quite certain that a lobster ground of moderate extent may he almost entirely exhausted by over-fishing; and such a ground, when once exhausted, is very difficult to restock, as lobsters keep very much to their own grounds. For instance, he does not think that a lobster belonging to Tobermory Bay would go far outside its own grounds. A close time for lobsters, and a gauge, are imperatively called for to restore the fishing. Nather would be sufficient separately. Their combination is absolutely necessary. The close time should be that of the old Act of George II., from 1st June.

Migration. Spounday.

to 1st September. Lobsters breed all the year round; but the summer season is best adapted for propagation. Does not consider the enforcement of the close time in the public markets, under a penalty, directed against taking, huying, or selling to he sufficient. Would also have a fishery officer appointed for the Mull district, who should have authority to examine the fishing grounds during the close months, and also the hoats, creels, &c. during the fishing ceason. It should be the duty of this officer not only to see that the close time was strictly observed, but also that the gauge was adhered to. Is in favour of a 5-inch barrel gauge, and would return all lobsters to the sea under that size, and would prohibit the admission of all foreign lobsters to the British market under that size. The fishery officer should have power to seize brevi manu all lobsters under the prescribed size. The custom-house officer at Tobermory might easily act as flabery officer also, without at all neglecting his more peculiar duties. For this additional work he abould get 15t. a year salary and an allowance of 5s, when obliged to he from home for a night. When he first remembers the fisheries there were not half as many boats engaged on them as at present. Remembers when there were only three or four bosts belonging to Tohermory that prosecuted the lobster fisheries thoroughly.

Then each boat carried only from 20 to 25 creels; now each boat carries more than double that number. This increase in the amount of fishing gear is necessitated by the searcity of lobsters. With the old amount of fishing gear the fishermen could not earn a living. Agrees with the preceding witness, in his condemnation of the artificial ponds for keeping lobsters. The Barra lobsters are

Grecle.

the finest that are brought to Tohermory. Wishes to express his opinion that the chiect of the present Commission will be fully attained if it should result in the enactment of a close time and a gauge combined. The combination of the two is essential and for the benefit both of the fisherman and the consumer NEIL MAGQUARRIE, formerly a fisherman, and now a fish merchant in Tobermory. Was a practical fisherman for 20 years, and is now a buyer. His

Gauge.

experience of the lobster fisheries extends not only to Mull, but also to North Uist, Benbecula, and Barra. The last-named island produces shout the hest lohsters in Scotland. Lohsters are decreasing in number and in size through over-fishing. Does not, however, see the necessity of a close time; a gauge is the true remedy; but if there is to be a closs time would restrict it to the months of July and August. A gauge is impensively required. They are establing far too small lobsters at present, less than 3 inches in the barrel. At least a third of the lobsters sent off from Mull are the two-for-one lobeters. Would take no two-for-one loheters; would return them all; or rather, perhaps, would count lobsters 4 inches in the barrel and upwards whole lobsters. LOBSTERS. Would allow the 4 inch lohatere to count two for one, and would return all below 4 inches. The gauge should he enforced in the public markets under a 6 mage. below f inches. The gauge should be enforced in the public markets under a tought of the contraction of the thinks that this is in a great measure owing to the competition of the Norwegian loheters. Thinks that the islands of North Uist and Burra produce at least as many lobsters as the island of Mull. Bunessan, Salen, and Tohermory are the chief places for shipping the Mull lobsters. Tbinks that lobeters stay very much on their own grounds. Good lobsters are to be got in Look Ewe

and Gairloch on the Rots-shire coast. Crabs are plentiful and good about CRAB Mull, but there is no market for them. Thinks that there should be a 5-inch yo market. gauge for crabs. ARCHIALD MACDONALD, general merchant, Tohermory. Has been ac-quainted with the lobster fisheries, as a lobster buyer, for 25 years. Can epeak as to these fisheries around the islands of Mull, Ram, Coll, Tiree, Canna,

and Muck, and also around Ardnamurchan. The present year has been a productive one generally, though in some places there has been a falling off. In Decrease. not prepared to say that the fisheries have fallen off much. Where there is an experienced and hard-working crew, shout as many lobsters are got now as formerly. The Trishnish Islands, near Mull, have been closely fished for 30 Class since, years, and they are still productive. Twenty-five years ago each host would carry 40 creeks; now each host will carry 60. They fish all the year round bere, except from the middle of November to the 1st March, when the weather is generally too stormy. On the Atlantic seaboard of the Outer Hehrides there is no n ced of a close time. Nature provides one, and the lohsters get a rest. On the Warter.

inner bays and loths, which are sheltered from the Atlantic storms, and may more row and notes, which are sheltered from the Attantic storring, and may be fished all by averyound, such as Gulrich, Look Ever, &c., a close time to the survey of the contract of the contract of the survey of the contract of Is in favour of a gauge to apply to the whole kingdom. Would allow no Genge, lobeter under 4 inches in barrel to be taken: all lobeters of 4\partial inches and upwards to count as whole lobeters, and those of 4 inches and upwards to count as whole lobeters, and those of 4 inches as half, or 2 for 1

lobsters. There is still good lobster fishing in Tobermory Bay, and around the island that shelters it, though they have been closely fished.

Gets the largest lobsters on sandy ground, but they are not numerous on such ground. 12 fathoms is the deepest water in which they fish for lobators here, but larger lobstere might possibly he got by fishing in deeper water, except in the summer months when they approach the shore. There are no artificial ponds in Mull for storing lobsters. Thinks they would not Ponds. answer. The lobsters in them would get out of condition and be unfit for mar-ket. Ships at least 1,000 dozen of lobsters annually from Mull and believes Supply of that the whole chipment by the various lobster merchants, in the island is from 35,000 to 40,000 annually. When he first commenced business the prices in London were much higher than they are now. Attributes this to the competition of the Norwegian lobsters. This year he sometimes received only 5s, a dozen for lobsters-a ruinous price. 12s, per dozen is the lowest price that

pays him. There is a plentiful supply of crabs of good size and quality all about Mull, but there is no market for them. They will not carry to where there is a demand for them, and there is no market for them here.

CRARS. LOBSTERS.

ODABS

Glasgow, Friday, 3rd November 1876.

PRESENT:

ARCHIBALD YOUNG, Esquire.

LOBSTERS.

Captain SWINBURNE, R.N. Is proprietor of Eilean Shona and of the island

of Muck in the county of Inverness. Has paid much attention to the subject of the lobster fisheries, and proscouted them for three years—from 1856 to 1859—in the neighbourhood of Eilean Shona and Ardnamurchan. Tainks that longters have fallen off both in number and size, and that the great cause

of this is over-fishing. While engaged in lobster fishing, he himself always charved the close time, from lat June to lat September, provided by the Act 9 Geo. II., c. 33, sec. 4, hut never knew of any other person who observed it. Close time. Thinks that a close time is absolutely essential for the restoration of the lobster fisheries. It should be from 1st June to 1st October, and should be enforced unider a penalty in the market. The penalty should apply to taking, huying, or selling during the close months. Where there are constguardmen them

ervices might possibly he made available in seeing that the close time was atrietly observed. Would have a gauge in addition to a close time, and would allow no lobster to be taken under 4 inches in the harrel. There are still good Gange. lobsters to be found about the island of Muck, but the average weight has decidedly fallen off, though occasionally individual lobsters are got as large as any caught formerly. The boats now engaged in the lobater fishing carry more crocks than they used to do, and would get far more lobsters than they Creeks get if lobsters were as plentiful in these seas as formerly. Considers it quite

possible to exhaust a lobster ground by over-fishing so as to render it not worth working. Captain JOHN W. P. ORDE, of North Uist. Has been acquainted with the lohster fisheries, and taken an interest in them for 20 years. Speaks specially with regard to those of North Uist, and generally with regard to

those of the Outer Hebrides. Twenty years ago the lonater fishing in North Unit was almost unknown as a general industry. It was first prosecuted by bests from Ireland, and was afterwards taken up by Huris and Berners men ; but now a considerable number of the natives of North Uist take part in it. The now a considerance numner of the natures or routin Unit state part in W. The lothest fisheries in North Unit are very valuable, and there are far more use and hosts now engaged in them than formerly. The fisheries on the swalers coast of North Unit are chiefly in the bands of mon from the island of Bu-ners, and from the Hyrker Islands. No done three has rever been observed any of the watern Islands, cough Colemnsy. When he erer been observed in any of the watern Islands, cough Colemnsy. enforced during the summer and autumn months, it would prectically put a stop to the lobster fishing on the Atlantic coart of North Uist and the rest of the Outer Hebrides. A gauge strictly enforced by a prohibition, under a penalty, against taking, huying, or selling any lobsier under the prescribed size, is the true reundy to restore the fashesies. It should apply to forcign lobsters brought to the British markets, as well as to British lobsters. The gauge

should be 43 inches in the barrel. Inspectors of markets and harbour police should see to its enforcement. Informers should be rewarded, and any person amount see to its emergement, informers should be rewarded, and any person should be mitted to prosecute. Look Maddy and Kalin are the principal shipping places for lobsters from the Sound of Harris, coasts of North Ulei, Benheetts, and the fords between Benheents and South Ulsi. And Benheents and North Ulsi. Was travelling in September last in the steamer which calls ones a fortright on her passage south at these shipping places and at Loth Besidals and Barra, and there were taken on heard during that trip 70 boxes Supply of. containing on an average aix dozen lobsters each, or upwards of 5,000 lobsters in all. This did not seem to be regarded as at all a remarkable consignment, and may therefore he taken as a fair average of the formightly catch at these The lobsters are carried in hoxes on the upper deck of the steamer; believes that in warm weather considerable leasts occur; but an improved method of packing and carriage might possibly he devised which would make these losses lighter.

Close time.

Gamer

Glasgow, Saturday, 4th November 1876. PRESENT:

ARCHIBALD Young, Esquire.

Hugh Maclachlan, fish merchant, 18, Jackson Street, Ghagow. Has been 30 years congaged in the lobster trade. Was the first person who ever sont a boat to fish in the island of Barris, now a chief centre of the lobster fisheries. When he first began husiness, Mr. Ritchie, Iona, Mr. Gallagher, Greenock, and himself had the whole trade in lobsters on the western coasts and islands in their hands. Lobsters were then very plentiful, far more Decrease. plentiful than they are now, and they did not generally go farther north than Sales, in Mull, to fast for them. Was the first man to introduce creats for fishing for lobsters at Port Sleavy, on the west coast of Sutherlandshire. previously to that, the fishermen there had all fished with rings. Creels are more deadly, and enable the fishermen to fish in deeper water. The boats at first would carry about 36 creels per boat. Each boat now carries many more Creels. creels, and there are three times as many boats sugaged in fishing. In 1852, one of his boats fishing as the Hysker Islands, took 100 boxes of lobsters in a fortnight, each box containing 31 dozen, for which he paid 10s, per dozen; 31 dozen lobsters would then fill a box; now it takes from 7 to 8 dozen to do so. Lobsters have decreased greatly in size as well as in number. If there were as many lobsters in the sea as there used to be, the increased number of hoats and creeks should catch four times as many as they do. Never used to commence lohster fishing before 1st October, and stopped on lst May. Has paid as much as 2,500t, in one year for lobsters shipped at Kallin and Tarbert in Harris. His reason for commencing fishing on 1st October, and stopping on 1st May, was that it seemed to him in the long run to be the most judicious and profitable course to follow. Considers, and has Goer time. always considered, that a close time is essential for the preservation and development of the fisheries; and now that they have decreased so much, they can only be restored by enacting a close time, and seeing it strictly enforced. Would have the fishing season to extend from 1st November to 1st May, and would have the rest of the year close time, the close time to be enforced in the public markets, as in the Salmon Fishery Acts. The penalty should apply to taking buying, or selling. Is of opinion that the close time suggested would not interfere with the productiveness of the flahings on the west coast of the Long Island, and of the other Outer Habrides, because the lobsters caught in these places during the warm months won't carry to market, the localities are to remote. They won't keep. There is a great loss, even in the case of the lobaters caught ou the Atlantic seaboard of these islands during the latter half of May, in their transit to the Engüsh markets. When first engaged in the lobster trade, scarcely over took a lobster under 41 inches in barrel. Lobsters Gampe. counted two for one if they wanted a claw. Put back all the small lobsters, counted two for one if they wanted a claw. Put back all the small lobsters and hardly ever took one under 4 inches in barrel. Is obliged now to take them any size, often under 3 inches in the barrel; but strongly disapproves them any size, once an another and would wish to have a gauge enacted which would effectually put a stop to it. Thinks the gauge by harrel measurement the fairest and best. Would return to the sea all lobsters under 4½ inches in the barrel. Twelve fathoms is the deepest water in which he has known lobsters fished for. The average weight of lobsters has decreased at least one-balf. Thirty years ago 20 lobsters would weigh as much as 45 now. Over-fishing is the cause of this. Prices are now higher than when he first began business. Price. Paid it first from 10s, to 12s, per dozen all the year round, now pays double.
Last year occasionally gave 40s. a dozen for lobsters. Once got a half teachest of lobsters from Portengoes on the Firth of Clyde, containing about three dozen. This was sent to Mesers. W. Forhers Stuart, & Co. of London, and the price got for the three dozen was 184. 10t. This was about the year 1851 or 1852. Norwegian lobsters first came in about 15 years ago. They have had a very bad effect in lowering prices in the home market. If a gauge be Goverenacted it must apply to all loisters brought to the British market, foreign as well as home. The gauge and close time should also, if possible, apply to the whole country, and not be local; but if it should be found expedient, for

40353.

LOBSTERS.

example, to allow the Cornish lobster fishermen to fish during the month of July on the great lobster ground off the Land's End, which is so exposed that summer is the only fishing season, would then have the close time he has suggested made applicable to the whole of Scotland, leaving England to be separately dealt with. Regards a close time as absolutely essential. Would Close time prefer, if practicable, to have it applicable to the whole kingdom; but would

rather have a local close time than none at all. Entirely disapproves of artificial pands for keeping lobsters in for a length of time, until they are wanted for the market. In such pends the lobsters are starved, and get watery and out of condition. The sending of such lobsters to the English market gives a one or condition. The senting of such history to the salement in Eogland that have received such lobsters entirely disapprove of them. Once lost about 500?. in one season owing to some of his men having contracted for the lobsters

from three of these ponds. Has no doubt whatever that a lobster ground of limited extent may be so

cleared out by over-fishing as to be exhausted for all practical purposes. Thinks that lobsters spawn chiefly in the months of March and April, though berried heat are got all the year round. In March and April there are from 40 to 45 per cost, of berried hear. Thinks that a rough estimate put hefore him, calculating the whole yield of the Scotch lobster fisheries at 300,000 annually, is not far from the truth. Does not think it an over-estimate. Would have a close time for crahs, the same as that for lobsters, and also a gauge of 42 inches; hut does not speak with the same confidence regarding crahs, not having had

the same experience of them as of lobsters.

Supply of CRABS. lose time.

APPENDIX No. II.

STATIONS of the OFFICERS of the BOARD of WHITE HERRING FIBHERY, SOUTLAND (communicated to the Commissioners by the Honourable BOUVERNE PRIMOSE, Secretary to the Board).—February 1877.

Station.		No.	Station.	No.
Evemouth -	-	1	Wick	2
eith -		2	St. Margaret's	
Anstruther -		1	Hope, Orkney -	1
Montrose -		1	Lerwick, Shetland	1
Aherdeen -		1	Stornoway	1
Peterhead -		1	Ullapool	1
Fraserburgh		1	Broadford, Skye -	1
Maoduff -		1	Fort William -	1
Buckie -		1	Campbeltown -	1
Burghead -	-	i	Ardrishtig	i
Cromarty -		1	Rothesay	1
Helmsdale		1	Greenock	2
Lybster -		1 i	Girvan	1



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JOINT APPENDICES

REPORTS ON THE CRAB AND LOBSTER FISHERIES OF

ENGLAND AND WALES.

AND OF

SCOTLAND.

JOINT APPENDIX No. I.

CORRESPONDENCE relative to the LAWS in Force for regulating the SHELL FISHERIES of NORWAY.

British Consulate General, Christiania,

My Lord, the honour to acknowledge receipt of Despatch No. 7 (Commercial) of the 18th ultimo, enclosing copy of a Despatch No. 7 (Commercial) of the 18th ultimo, enclosing copy of a Despatch No. 7 (Commercial) of Fasheries at Abecdeen, in which he expresses his desire to obtain

either an abstract or a complete translation of the law in force for regulating

the taking of shell SH.

In conformily with your Lordship's instructions, I beg leave to transmit no conjects of the laws bearing on this subject now in force in Norway, one relative to the preservation of lobsters, and the other to the preser mustain of lobsters, and the other to the preservation of lobsters, and the other to the preservation of the Solomy, with translations of the same. During the late session of the Solomy, for the Solomy, and the Solomy of the Solomy, and the Solomy of the Solomy Law for the Preservation of Lohsters.

The proposed amendment only affected the third paragraph of the Act in force, in which the fine is fixed at 24 ekillings $(10 \, \mathrm{kd})$; this, it was proposed, should be raised to 60 skillings, and that an additional paragraph

should declare it to be unlawful at any time to possess, sell, buy, or receive lobsters under 8 inches in length, as well as lobsters in spawn.

The rejection of this amendment was, however, recommended by the Committee appointed to report upon it, on the ground that those hest acquainted with the subject failed to recognise its necessity, and, further, that the enforcement of the provisions of the proposed amendment would be attended with much difficulty; that, from the statistical facts before the Committee, there was no evidence of a diminution in the supply of lobsters of late, and that consequently the circumstances did not warrant the adoption of the extraordinary regulations proposed, stances did not warrant the anopunon or the extraordmary regulations proposed, which would be justifiable only when there was a prospect that without undertwictions the fishery in question would materially suffer.

The annual take of lobsers in Norway may be estimated at about 1,000,000, representing a value of about 22,500. They are exported chiefly to the United

Kingdom, and this trade is rapidly increasing in importance, according to the following returns :-Value.

Number. No returns 1876 1875 400,000 £8,889 1874 365,518 8,122 1873 1872 209.099* 4,356 207,299 3,111

Further details respecting the lobster fishery in Norway will be found in Vice-Consul Crowe's Report on the fisheries for the year 1875. The oyster fishery, which was carried on along the whole Norwegian coast,

and formerly with profitable results, has fallen off so considerably of late years as to be no longer considered of any value.

No laws relative to the crab fishery have as yet been passed by the Norwegian Parliament.

(Signed) HENRY M. JONES.

Consul General.

The Right Honourable the Earl of Derby, &c., &c.

ENCLOSURE

TRANSLATION.

Law for the Preservation of Lobsters.

Malmö, June 29th, 1848. We, Oscar, by the Grace of God, King of Norway and Sweden, &c., &c. Make known, that before us has been laid the resolution passed by the present assembled Storthing on the 9th May this year, to the effect following :-1. It is prohibited to eatch or sell lobsters between the 15th of July and the

end of the following September. cfind of the concerning representation of the above prohibition can be limited in different districts by the King's authority. Application to this effect must be sent through the local officers of such district. The prohibition must, however, in every case

be enforced during the whole of the month of August. Any person taking or selling lobsters during the period prohibited according to paragraphs 1 and 2, will be liable to a penalty of 24 skillingst

for each lobeter illegally sold or caught.

4. Cases arising from violations of the above regulations will be judged by the police courts. Whenever anyone is denounced for such offence the police or county magistrate is to inquire if the offender agree to pay the fine, the amount of the same being notified to him at the time by said official; if so, the said fine shall, in the event of his being unable to pay, be recovered by execution. If, on the other hand, he deny the charge, and refuse to y the fine, the said official shall duly investigate the charge and try it pay the mas, ... before the Court.

The fines recovered will be divided equally between the informer and the

local Poor Board.

5. From eight days after the commencement of the prohibited term until eight days after the expiration of the same, it is likewise prohibited to export lobsters to foreign countries. Infringements of or attempts to infringe the above regulations will be punished in accordance with the Customs law of the

26th September 1845, on the subject of smuggling prohibited goods.

6. This law will come into force on the 1st January next year. As we have accepted and confirmed, so do we now accept and confirm this as a law.

Given at Malmo, 29th June 1848. Under our hand and Seal of the Realm.

OSCAR. * Sie in original: but there is appearably an error in copying; the figures should be 294,699. ide Report (England and Wales), p. XIV. auts.

+ (10èd.)

JOINT APPENDIX No. II.

NATURAL HISTORY OF CRABS AND LOBSTEES.—By FRANK BUCKLAND, Esq.

Having obtained during the late inquiry, and by other investigations, some additions to the general knowledge of the natural history of Crahs * and Lobsters, my Colleagues have agreed that I should have the privilege of putting these facts together in a consecutive form, with a view of elucidating

the accompanying region.

Charly and lotter may be said to correspond with insects, and to do much Assistant of cases.

The same duties in the water as insects perform on land. Linneurs formerly mail-laterers, included the early, lobeter, and early early with Arsa-halds or sydders, under the general division of inacets. Even now a certain kind of each, the "Skerry," or "Ozorwick" of Corwall (Mais Squinzho), is called the "Spider Cath" or

general division of inzects. Even now a certain kind of cush, the "Skerry," or "Corwick" of Cornwall (Mass Squinado), is called the "Spider Crab", or the "Thornhack Spider."

As a watch case contains much delicate and completed machinery, so does the back shell or carrage of crabs and lobators contain many highly com-

the half the control of the control

The general appearance of a exch or lobster when valking at his letture is very insact-like. In the clean and object the skeleton is external, the phase no bones at all the fact then year be and to live inside their skeleton, or if you have no bones at all the fact they may be and to live inside their skeleton, or if you that the property of the skeleton or in the skeleton. The severing is compared of the skin more or loss hardened. This "dermo skeleton," when come completes, undergon little or no freibre change. It is is adopted to the increasing size of the body by being periodically out and culturity renews in study breaks as the vincetility of the skilled of the contrading the order of the skilled of the contrading the skilled of the skilled

If the time of a blosine by photoe lin strong nitries sold, a great afferwateness Communication that pickes, this cancada by the solution of the photophess and enhances of ordinations of ordination of the control of the photophess and control of the control of

The skeleton of the crah has been described as being composed of three ayers: the epidermis or outicle, the rete mucosum or pigment, and the corium.

dissolved by nitric acid.

^{*} In footband error we called partons.

*The earth in the more processes to ferror one of the sizes of the reduce. He represents the month of June, because when the sum has come to this conscientation to begin to ap bacterial size in the amount of a cond. The cope them so it is precedent without the reduced was a summary of a condition of the c

The epidermis is horny, and has feather-like hairs on certain portions of its

surface. The rete mucomun consists generally of pigmental matter diffused through a cortain thickness of the calcaroous layer upon the contun; the strength of the shell depends upon the calcaroous matterial deposited in it.* Microscopally examined, the cortuin is found, in the crash, to be traversed by parallel tubula (like those of the dentine of teeth), giving off lateral branches

at certain regular distances. The best examples of the dentine-like structure

will be found in the black portion of the large claws.

When lobsters are boiled, their armour-like coats turn red; the coats of

crable do not turn and with folling. There is much cloud is as to the cause of this modelen changes of solven by beat just as for a it can scenarios, it is take the model of the property of the control of the control

colour, and they do not change their colour when boiling.

When a horizontal action of one of the thin plates of an unholded lohater's tail is placed under the microscope a distinct hexagonal network can be seen. This is fround to be due to the presence of some innumerable granules of calcarcous matter which are in some places so angular as to lead me to believe they are crystals of carbonate of lime.

When a vartical section of a behater which has been boiled is examined under the microscope, both vertical and horizontal striss will the sen, the vertical striss being the largest. The red colour can be distinctly seen not to be contained in cells, but to consist of a finer and more compact issue than the other parts and to have the colouring matter equally diffused through it. The reason why lobstess turn red when boiled and crabs do not turn red

requires further investigation both by chemists and microscopists.

Crabs and lobsters contain much phosphorus; the following table shows—

hemical comrelation of fleah lobeter.

The CHEMICAL COMPOSITION of the EDIBLE PARTS of the LOBSTER.

Soft Internal

Nirequence matter 11-170 13-160 21-592 Party matter 1-170 1-160 21-592 Party matter 1-170 1-160 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170 1-170		270502	Matter.	eparen.
	Fatty matter Mineral matter Non-nitrogenous matter and loss	1:170 1:823 1:219 76:618	1 · 444 1 · 749 0 · 354 84 · 313	8:234 1:998 4:893 63:983

That phespherus exists in large quantities in belsters may easily be proved. A leister in how whater, when it coases to hereby, somester a highly phespheries the phesis of the control of

Association, 1844 and 1847.

caused by the chemical changes in the organic tissues, when life is no longer present to resist the ordained agency of decay and decomposition; in fact it is a alow combustion by combination with oxygen. Decayed wood is also sometimes luminous. On a railway in North Wales I discovered a wooden steeper

which at night was highly phosphorescent.

The presence of phosphorus in the lobster is of great importance to the consumers of these sta huxuries: there is no substance which conveys phosphorus so readily into the human system in an agreeable form, and which the system so readily and quickly assimilates, as the flesh of crabs and lobeters. For this reason lobsters, crabs, and oysters should form the diet of those engaged in business or ardnous literary pursuits, where there is much wear and tear of the brain-powers, and where an extra supply of phosphorus is required for the food of the brain. It is for this reason, I magine, that lobsters and crashe are generally esten and most esteemed for supper. The brain towards night begins to feel a little exhausted; the lobster, crab, or oyster quickly supplies the

want, and the system immediately feels the effect. The structure and faculties of crabs and lobsters are very wonderful and

perfectly fitted by the Creator to the duties they have to perform The mouth of the crab is very complicated. In the crab I find there are Meuth and immediately under the eyes no less than six distinct pairs of moveable doors, stemach of valves or lips; some of these are subservient to the mouth, some to the breathing organs; all are worked by their own separate sets of muscles. Having dissected away, one by one, these doors, which are highly complicated structures and thickly covered at their margins with short stubby hairs, we finally arrive at two very sharp teeth. In a crab measuring 8 inches across the back, the teeth are nearly three quarters of an inch across; they are very much the shape of a human nail. Their external edge is sharp and chisel like, and on the interior aspect of the testh is found a hard projection of glass-like enamel; these two powerful tests are set on a very beautiful hinge. When a crab shell is opened two tendon-like bodies are perceived among the viscora. These tendon-like bodies, resembling the "leaders" of a turkey's leg, are inserted into the teeth so as to work them with very great power. The teeth themselves are fixed on to a framework of great strength and bardness. These teeth are incisors not grinders. The tooth of a large crab when dissected out of the body is nearly as large as the incisor of a calf, and much resembles it in general contour. Place the two thumb nails together, imagine them to be teeth working one against the other, and you will have a good model of a orab's inciser-teeth. Immediately behind the teeth come the cesophagus, and the stomach. This is composed of a framswork between which a soft, bighly elastic membrane or stomach is spread, capable of containing much or little food. In this stomach are seen three large teeth; these are powerful

corrugated, much retembling the pattern we find in the tooth of an Indian (not African) elephant. These teeth are worked by two strong wire-like tendons, of which, in fact, they form the terminations, and are no doubt powerful masticeting and cruehing organs; this is proved by the fact that the fish bones found inside a crab's stomach are always very much comminuted. In their digestive apparatus the crustaces, which are all carnivorous, resemble the predaceous insects in the shortness and simplicity of the alimentary canal. The liver in the crab is highly daveloped. In a good dressed crab the liver or "cream" forms the best part of the dish The sense of smell is probably highly developed. The erab has not long Organs of smell antenna like the lobater; it has, however, two small horns near the angle of each in crab.

mill-stone grinders. The longest of these tooth are situate at the bottom of the stomach. A tooth is situated one or either side. Their surfaces are

eye, also two large horns in the middle of the forehead; these are, I conclude, somehow connected with the sense of taste and smell. That the faculty of small is probably highly developed may be inferred from their habits; because, when the pote are put down by the fishermen to catch them, they are known to come

to the pots for food, from a considerable distance round; "The strongest" smelling bast and the highest coloured has the preference. The white bound " is preferred by fishermen because of its smell," one witness informed us. This sense of smell may account for the fact that small fisheries are more readily fished out than large fisheries. Moreover, crabs are scavengers, and therefore the sense of smell is highly valuable to them. In terrestrial animals,

40353.

which act as scavengers, we find the sense of smell highly developed; a good example can be found in the histe bottle fly and the dump heelse. The organs of sight are also very keen: the structure of the eyes is very

The organs of sight are also vary keen: the structure of the eye" is very insect-like: the eye of the dragon fly much resumbles the eye of the crall.

This structure of the crab's eye and his some of smell, will, I fancy, account for the fact that exha are caught in the greatest quantities when the water is muddy and thick. Crabs under these circumstances "gravithe best," Crabs

Lunes of crab.

now the matter that create are cought in the greatest, quantitates when the water is unadly and third. Crahe under these circumstances "ears' the best." Crahe and lobuses also, having goes in the pote at night, will come out of them at summist if the other most constant to the constant of the constant animals have to breathe the air by means of lungs; neither of these can change places without death. But the orate and lobaters being littoral or shore animals, and being liable to be left high and dry by the tide, require lungs that can actually breathe both in air and water. The seal, porpoise, crocodile, hippotamus, &c., though passing most of their lives in water, breathe air, and have apparatus for so doing. The erab, on the contrary, breathes both air and water. The lungs consist of a series of tufts of very delicate membranes which are pyramidal in shape; of these there are eight on each side. These sets of eight lungs are packed away as it were in a watertight box. The water therefore passes through them without interfering or coming in contact with any of the other viscers. This is a most beautiful structure, not yet imitated by any design of man. The inner side of this compartment consists of a firm box, made of the same substance as the chell; the outside is a beautiful, delicate, classic, expansive, membrane, and is like gold beaters' skin in etracture. Whom in good beath respiration is kept up by means of a con-stant etreem passing through this lung-containing chamber. The water enters through an aperture which I find is cituated immediately under the tail. It makes its exit through a alit in the neighbourhood of the mouth, where it is regulated by the action of a curious valve-like structure, which is connected with the mouth. But this is not all : extending along the whole length of these eight finger-like lungs is a delicate curved whalehone-like filament (the flabellum) lined on each side with delicate hairs, forming, in fact, a delicate brush; this fits accurately on to the lungs. I find this whalebone-like filament is fastened to and worked by the great door, the first of the numerous doors at the crab's mouth, and which can be seen in perpetual motion, like the gills of a fish when the crab is breathing. The probable use of this beautiful mechanism is to keep up a gentle pressure upon the complicated lung structure, and regulate the flow of water to it. There is also a valve which will keep the water in the lung hox, as a cork keeps the fluid in a bottle. If it were not for this structure the crab could not live equally well in the water and in the siz. I have reason to helieve that when he leaves the water, either accidentally or of his own accord, there is always a certain quantity of water in the lung box, which keeps his sills moist. The bubbles proceeding from the lungs of a crab or lobster when gradually dying out of water, indicate that the air in the lung box is hecoming vitiated, and a further cupply is required, also that the gill tufts are becoming adherent to each other, as may he observed in the gills of a dead fish. These gill tufts in the crab and lobster are popularly considered poison, and are called "dead men's fingers." It is an undoubted fact that crabs are much larger in some places than in

Varieties of coab.

lobiets are spopularly considered poison, and are celled "dead mer's fingers."
It is an undoorbot fart that enhas see much larger in some places than in others; the largest creaks are found on the coasts of Deron and Cornwall, marrier. The entire of the coasts of the

[•] Orable eyes, as used in the Pharmacopasis of oblem times, are remained calcinerous sorreitons found on the skine of the tolumb of craytins. These substatems are supposed to sat a restrainted, as one for the property of the control of the con

d made distinct by the University of Southampton Library Distinction Unit

cook cross are common in the only months of the year in the London markets. At Plantonoguit the largest rathe are only? Jindee, and at a contract the property of the property of the property of the set two kinds of cross, a large set and a must tort—by nathegy: "Fany cross's set two kinds of cross, a large set and a must tort—by nathegy: "Fany cross's set two kinds of cross, a large set and a must tort—by nathegy: "Fany cross's set when the property of the contract a cross of the contract a contract Contract cond long within the clintones of the Golf setcus, as shown by the experience of the contract products, and the set on the case cost being as of cross. All Spence But considers that Coronall, where the largest cross of cross. All Spence But considers that Coronall, where the largest cross of cross and the contract and the c

A kind of black crab is caught in Mount's Bay. These crabs, as at Seilly, are small, black, light, and not fit to take; and a small sort of crab is found in a place none Plymouth breakwater; they are never large there; it is possible that this is simply a breeding place (vide Evidence, England and Wales,

p. 56), Small kinds of lobsters are also caught at Scarborough. Bridlington Quay.

in Yorkshire, may also be said to be a nursery for erabs; as many as 300 little crais are sometimes caught there in one night.

Cruls are migratory in their habits. They especially resemble insects, inas-Mendions of much as they are most lively in warm weather; they approach the shore in sum-embs. mer time. Witnesses at various places gave the following evidence on this point:

—" On the 9th May 1876, orabe and lobsters came in in good quantities. On

the 16th they came in in nice quantities. On the 31st he had three dozens were fine fish. On the 2nd June he had two dozen and four. On the 3th of June one-and-a-half dozen. On the 12th June two-and-a-half dozen. On the 15th June two-and-a-half dozen. On the 15th June two-and-a-half dozen.

On the 15th June one dozen and a score. A dozen lobstere is 13. Twenty-six half crabs make a dozen."

six half crabs make a dozen."

Another witness said, "Begins fishing in March, looking for cook crabs.

The cold in the spring keeps back the han crabs. When the warm weather

"comes he looks for hen crabs and catches fewer cocks. After the hen crabs
get sexerer, in August and September, he looks out for crayfish."
The crab and lobster fisher; ceases from the middle of August to the

"In eran and looster maney ceases from the middle of August to the
"middle of March, when they are migrating," near the Longships, and were
" "Crabe and lobster came to a certain ground near the Longships, and were
" as thick as possible, even when the fahermen left off fishing in September."
" When the fishermen went back in March and April to look for them they

"When the fishermen went back in March and April to look for them they
"were all gone."
"It is useless to set the pots before April. In October they (the crabs)
"draw off into deeper water."

draw off into deeper water."

"The cashs come in from the deep water. They come some years in March,
"Some in Auril, but this deneads on the weather. They crawl best in Angil

" and May."
One witness produced a "chart of sea-bottom adjacent to Banff, Macdulf,
and Whitehills, showing that in the autumn months fice crabs are three miles

and whitehous showing that in the summer months, May to August, near the lead for shelling."

"Female crabs are oaught by travlers in early part of the year, February

" and March, 6 to 18 miles from the shore."

" in the spring of the year no large she crabs are seen, but in the summer " they are caught"

"Crubs and lobsters come towards the shore in warm weather, and bury
"temselves in the winter."

"Crubs and lobsters will not crawl in hard frosty weather."

Cubs will feetail the weather 25 hours beforehand, and will not more when Costs and a storn is coming on. Warm, palay weather with weather with sately winds, is good for wrone, caching one should be called any indirect, and as light Cross-caching caches and the caches and the caches and the caches and the caches are the caches and the caches are the caches are the caches and the caches are the

Habitat of crabs.

Crahs and lobsters inhahit somewhat similar localities at the bottom of the sea. Crahs, however, affect the sandy plateaux rather than the rocks themselves. The large crahs live on rocky bottoms, the amaller crahs on stony and sandy lictions. On the coast of Cornwall large lobsters are caught in the very deep crevices far among the rocks, which are called "pills." If the pot slips into a deep crevasse large lobsters are nearly sure to be caught.

Orabe travelling. Crabs are very fast walkers when on the march. They progress, as it were, crace are very nat waiters when on the march. They progress, as it were, on tip-toe, supporting their heavy carriage-like holds by means of their eight legs, each of which is terminated by a spike. It is difficult to follow the movements of their eight leg, more difficult than to follow the movement of the four legs of a hone. The eight jointed legs, each with its apike, enable the ends to climb a mong the rocks like great spiders.

Crahs also are travellers, as proved by the following cases:—
Mr. Howard Fox informed us that "A small trading craft was taking
shell-fish from Mullion to Plymouth, and she mank off Fowey. Shortly
"afterwards a fisherman at Mullion cought some of the identical crahs in his

" pots at Mullion, at distance of over 40 miles. He knew the crabs were the same he had previously captured, because he tied their claws with a poculiar

" knot, and the knots were still on them. Other instances of this kind have " hannened in this neighbourhood."

Mr. Henry Lee writes:—A very eingular instance of a lobster finding its way back to its former habitat came to my knowledge some time ago. The stock box helonging to a fishmonger was overturned during a heavy gale, and the fastenings broken by the force of the coa. Notwithstanding that the prisoners confined in it had their claws bound together with twine to prevent their damaging each other, they all made their escape. Some were recaptured, and one of them, which was recognised by his having a broken "thumh" to one of his claws, was taken six days afterwards three miles from the scene of the accident, and within a few yards of the hole where he was originally caught. The string was still tightly secured both to his large clavs, so that he could not have used them on his journey,

Mr. Laughrin, the coastguard officer at Polperro, in Cornwall, informed us that "crabs go from place to place, and sometimes travel 10, 12, or 14 miles. " Some crahs got out of a store pot, and he found them again over seven miles

" out at sea in a few days."

Again, Mr. Climo, of Polynan, stated that crabs had been marked and found two miles east of the harhour in about a week; they were known

because they were "nicked crabs."

On 16th October another witness marked the hocks of a few crabs with the initials W W and put them hack inshore. On 27th November these crabs were caught again two miles seaward. In the winter time the crahs retire from the shallow water to the deep sea.

Orabs in deep

They are there picked up by the trawl nots in considerable numbers during the cold rough weather. I fancy they hybernate, (insect-like again,) burying themselves in the sand. In December last I received a deep-sea crah from Dr. Norman, of Yarmonth. It was a she crab caught by Mr. James Burgess, fishing master. He states that many large crahs are taken by trawlers in the North Sea fishery, S0 miles east of Grimshy. During the winter months the dapth of water is about 30 fathoms on an average. Nearly 500 crabs are taken in the voyage of eight weeks hy trawlers. Most of those caught out at sea have lost a claw. Some of them are very large and covered with barnacles. A somewhat similar in-

Sexes of erabs.

stanos of crabs being found in the deep-sea can he found at page 46 of the Evidence (England and Wales). As the spring comes on, the crabs approach the shore, arriving from their winter quarters in the deep sea.

The sexes of crabs are easily distinguished. Thus a male crah has a small narrow tail, whereas a female has a very broad tail, which is colled the apron. In two crabs of exactly the same size across, the tail of the male crah measured seven eighths of an inch across, while that of the female measured two inches and one eighth across, see Diagram No. 7. The tail of the female is marginated with hair; the tail of the male has no hair. The difference of the size of the tail in the two sexes can be seen from the engraving. Female crabs are called by the following names: Queens, Humps, Ran Hens, Seeding Hens, Donp Crabs, Pouch Crabs. The claws of the female are smaller than those of the male. This of itself is a good diagnostic point besides the broad tail. The shell of the female is more convex than that of the male, the male shell heing nearly flat. On the underside of the apron or tail of the female crab are seen a series of eight finger-like processes; these finger-like processes are donlie, are attached at their hase, and are movable. In a erab which is not in spawn, these projections are trimmed on each side with a delicate bair-like substance, in general appearance not unlike the feather of a quill pen. It is to these sliken substances that the eggs are attached. In the crah, our output, no eggs are attached to the outer finger of each

pair of fingers, but only to the inner, by means of these hairs extending on each side; the outer fingers form a kind of nest for the protection of the eggs, see Diagram No. 8.

A orab carries eighb bunches of eggs under ber tail. These eggs are of a Eges of code. heautiful red colour, even when unboiled, and perfectly globular; they are not unlike very minute herring roe. They are attached to the feathers by means of a very delicate hat strong fibre, like very fine silk-worm gut, see Diagram No. 8. When floating in the water they appear to he, as it were, threaded together like beads in a neckless. From a calculation made by my secretary, Mr. Scarle, it appears that there are 180,180 eggs in one hunch of crab's eggs; therefore there appears that there are 100,100 eggs in one numer of man's eggs; incremove after mints he no less than 1,041,406 eggs on the eight hunches of one orab. Mr. Spence Bate, F.R.S., found in one abe crab 2,000,000 ova. Previous to spawning, the eggs are contained or cettred immediately under the shell, occupying at least one third of the whole space. This mass of eggs almost fills the shell, (See coloured cost in my museum.). The eggs are estartion stick the shell for nine months before they are extruded; in this condition they

are called the coral. The coral crab is especially esteemed at Aberdeen On hending hack the tail of the crah two round apertures on the hard ebell of the crab will be perceived. These are covered with a drum-head-like clastic substance, which is perforated in the centre. When a coah is shout to spawn these project. On passing a prole up those, it will be seen that a direct communication exits a totecate these holes and the mass of correl a curve communication exists between these holes and the mass of count of the country of the cou but bope to find out by means of that valuable sea laboratory, the Brighton

Aquarium. A orab may be said to be marsupial; she carries her eggs inside ber body up to a certain point; they are then deposited under this pouch. The reason of this external gestation is ohvious; the embeyo inside the egg requires water to bring it to life. As, in the salmon, the young creature is not developed in the egg for some time after its extrusion from the mother, so the mother-crab carries about her eggs till the eyes of the embryo are developed in the egg, and the young ones subsequently bursting the shell of the egg assume an undeveloped existence as Zoca. When the eggs of the crah first appear under the tail they are perfectly transparent. I bave on one occasion examined the oggs of a crab; in each ogg the eye of the embryo was distinctly visible; these eggs would have shortly hatched out. According to blz. Spance Bate site horry shells of the eggs remain attached to the feathers of the tail when the embryo escapes, and when the female sheds her shell she also sheds the husks of the eggs. The London merchants brush out all the spawn from the feathere under the tail.

The oral when first escaping from the egg is not by any means a perfect Young of orale, shape. It is, indeed, very unlike a crob, and the young sees until lately were considered a distinct genus. "On leaving the egg," says Professor "Rymer Jones, the young crah presents a currous and grotesque figure; "the body shapetime basis and it is back replacement unwards juing a heart like

"its body is hemispherical, and its back prolonged upwards into a horn-like

^{*} One witness told me that these were the tests of the crais, and that the young ones sucked † "General Outline of the Organization of the Animal Kangdom."

"appendage; the feet are scarcely visible with the exception of the last "we pairs, which are clined like those of a branchloped, and formed for awimming. The tail is longer than the body, possesses no false feet, and the terminal joint is cresomt-shaped and covered with long spines." The even servery large, and a long back projects from the lower surface of

" the head.

"In a more advanced stage of growth the creature assumes a totally diffeernt shape, nodes which form it has been known to naturalists by the name of Megalopa. The eyes become pedunoulisted, the epihalotherax rounded, the tail flat, and provided with false feet, and the chele and ambulatory extremities well develored.

"A subsequent moult gives it the appearance of a perfect crab, and then only does the abdomen become folded under the thorax and the normal form of

the species recognisable."

Deposits the expension of the property of the

Consulting Naturalist to the Brighton Aquazium.

My own opinion agrees with that of Mr. Spence Bate, who says:—"The
beries will be exposed in January and earried till May, soon after that the

" buries are hatched out In May the water is tinged with the young

rning of

"Zoea."
But berried crabs with ova under the apron may be obtained in December and January. Mr. Climo, of Polruan, stated:—"Once he had been flashing "in October, and had left some crabs in a store pot till after Christman; in

"January every one was full of spawn. There were nine or ten erabs."

Other evidence was given at various places to this effect: a. g. at Prawle:—

"About December the she crabs are berried; they are berried in December, January, and February."

Mr. Bierry, s. Leofon flathenome, said, "The lens enals would have the brein under their lain in haligatings of Documbe." i.e. that the years, before under their lain in haligatings of Documbe. "I has the years before the lain the lain of the lain of the lain of the lain of the architecture of the lain of the lain of the lain of the minima. I think, has mean its. Curring eggs. 25d. The time when the young we lastical. 34j means its. Curring eggs. 25d. The time when the young we lastical. 34j specific," branch "—out at sea, the the year lainlying require variously and any postering "branch"—out at sea, the the gad laidings out the place in the warm spring months near the above. All young things require variously and and bocome service sit the time their intent feed its most abouthat. Most, I may any all, so-dash fry are found in the spring, and I sea, therefore, let to consider that the yearing zero, care out of the near give the spring, when

there are three things present for their comfort and is assist their growth— 1, warmth 2, quiet water 3, feed. At that time both animal and vegetable life are just bursting forth into existence, and the food minute enough for the zone to eat is at that time found in most abundance. In many parts of England the smallest enabs are found in May and June.

Young birds are been in the spring for the same reasons. If young crahs were horn out at sea in the winter time, the conditions would not be favourable for them. My statement is further confirmed by the fact that the very small crabs, the first real crab-like creature after the sees state, are found on the

for them. My statement is further confirmed by the fact that the very small crabs, the first real crab-like creature after the sees state, are found on the foreshore in the shallow warm water in the spring time.

As the crab is encrusted with a hardened and inclustic shell, composed of

Croke shading:

At size critic is einevasted with a larefused and inclusive shall, composed of the sales.

At size critic is einevasted with a larefused and inclusive, it is notable to you like any one of the sales.

At size critic is composed of lime, and dythen, it is notable to you like any open of the sales. The critical process of saleding it is is locally called a Panger, in the notatin process of shelding its shell. The shell when about to be cuts of it spits along the underside of the body from the of a full-grown critical.

In the composed of the control of the sales of the control of the sales of a full-grown critical.

It is not known how many times a year a crab sheds its shell,

The following evidence was given us. Mr. Matthias Dunn thinks "crahs

" shoot their shells at least once a year, and as often as they fill up. They " must cast their shells more than once in 16 months to grow from 4 to " 8 inches across." Mr. John George, of Sennen, thinks, "crahs shoot their "shells once a year. Has found them every year in a certain hole with their "shells off in March and April." Mr. Laughrin, Polperro, stated "that large " orabs shed their shell twice a year; small ones every four or five months."

Other witnesses informed us that "a creb of 4 inches would shed his shell three times before he reached 8 inches." "Crabs are casting their shells " hetween end of August and end of November." "A crah of 4½ inches is "about three years old."

When a creb sheds his shell he sheds every part, not only of his external covering, but also of the skin covering his internal viscers, even the horny casings of his lung tufts. He also sheds the coating of his eye, and even the external covering of his large pincher-like teeth. The coat and teeth of the stomach are, I think, also shed, but I have not specimens to show this. When a crah sheds his shell he increases considerably in size. In the appendix will he seen a diagram showing the rapid increase in size at each growth. This remarkable specimen was presented to me by Mr. Sandford of Cromer. The orah had casi its shell in the crah pot, so that the empty shell and the crab itself were luckily quite perfect. The empty shell measures access three inches and seven eighths. The crab which came out of the shell measures ne less than five inches, namely one inch and one eighth larger than it was a few minutes previously. I have ascertained for a fact that a crab is enabled to draw out his claws through the narrow opening of the point where the claw loins the hody by the curious fact that the shell splits just at this point. The shell of the lobster also cracks at this point. (See specimen in my museum.)

When at Dunhar, Mr. Hutchinson was good enough to give me a live Lebster shedding lobster which had just cast its shell in a store-box; the length of the lobster shell was 7 inches, and the length of the new lobster was 8 inches. Mr. Hutchinson gives as evidence:-" It would be beneficial to everhody to return

" lobsters to the sea under 45 inches in the harrel; a lobster measuring 4 inches " to-day is worth 6d.; each time it casts its shell it grows half an inch, so "that very soon it would be worth double the money. A lobster grows half an "inch in the harrel when it has shed its shell once."

It is probable that when crabs arrive at an adult age, they will not shoot Age of crabs. their shell. The evidence I have of this is a male crab from the North Sea. measuring 68 inches across the back. Upon its back are two oysters. These oraters have adapted themselves to the contour of the crah's back; they measure respectively in the widest dismeter about 3 inches. This individual crab had not, therefore, shed its shell for three years. I have also another crab which has one oyster attached to it. This crab (a female) is 72 inches across the back. This oyster shell measures 3 inches across. To both these specimens there are also large barnacles attached. I have also another specimen, presented by Mr. J. Wiseman, of a crah on which six cysters are fixed; the upper surface of the crah is almost concealed by the systers. This crah must have been in the middle of a heavy fall of oyster spat. I have also two specimens of the common spider orab of small size. On the back of one are attached no less than 10 mussels, which I conclude are two years old; the other crab has, attached to the lower surface of the claw, an oyster of about four months old, two other small overters are attached to the lower surface of the crawling legs.

Oysters do not very often attach themselves to lobsters. There is, however, a splendid specimen in the British Museum to which 20 oysters are attached.

I calculate this lobster had not shed its shell for four or five years It is, however, to be observed that the crow, anomia, or saddleback cysters, seem to be especially fond of adhering to the shells of lobsters. I do not know why this should he; the crow oysters only come from warm water; when, therefore, crows are found upon lobsters, it is quite certain that they inhabited places

where the temperature was somewhat warm. Not only do crahs cast their shells, but they not unfrequently, from some cause or other, throw off their claws, and, strange to say, and it is interesting to know, that they will grow again. I have a specimen of a crab whose larger claw measures 125 inches long, and 7 inches in circumference at the largest part, while

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the smaller claw measures 5 inches at the outside measurement, and 2 inches in circumference at the largest part. After a crab has shot his claw the wound is covered over with a firm cicatrix; after a while the new limb appears from about the centre of this clostrix; at first it appears like the bud of a plant, it then assumes gradually larger dimensions, in its early stage much resembling the incipient graft of a tree. In Aberdeen market I saw a great many crabs hig claws sold separate without the crabs. I fear they take off the claws and return the crah to the sea clawless.

At Newhaven, if a crab wants a claw, the fisherman has to give an extra crab to make up for it. About Anstruther small crabs are called Poults.

It is probable that the female crab is impregnated by the male shortly after she has shed her shell, and when the shell is quite soft. Mr. Thomas Hutton, Custom House Officer, informed me when at Peterhead, that when the female crab becomes a peelert, that is a soft crab, which she does yearly in the end of the month July, and in August and September,

the male crab, which does not cast its shell at this time, mates. At Hall Sands, Devon, we were informed that all soft crabs are called ripe

crabs; they are always accompanied by a male

Mr. H. Lee tells me that he has seen at the Brighton Aquarium the common shore crah making, both being hard shelled, and that he has received evidence from fishermen at Pools, in Dorset, and elsewhere, that they have observed the same thing.

I now come to a very important subject indeed, viz., soft crahs. A soft crah may mean two different things. Firstly, it may mean a crab which has just cast its shell, and is soft to the touch, like putty, or it may

mean a crab whose shell is very brittle, like thin glass. After the crab has cast its shell, the shell, wanting calcareous matter is very

soft and elastic, like putty. At this time they retreat into concealment. As the shell hardens" the erah gradually assumes more consistency in its skin or shell. Crabs in this condition are called "soft crabs," "casters," "light-footed crabs," "light crabs," "white hellied crabs," "peelerts," "pullers," "metioks," "seeding crabs," "watery crabs," "white crabs," "ripe crabs," "pale crabs,"
"sheer, or sick crabs." I myself prefer to call them "glass crabs." These crabs have not recovered their condition after casting their shells, they are in fact "kelt" crabs. I have dissected several of these crabs, and find that they contain very little else but the etomach, liver, lungs, and other viscers, but always a great deal of water.

A glass crab can always be told by pressing the shell immediately under-nessed the claws; at a slight pressure, it splinters up like glass. At several fishing ports in Scotland I observed the bottom of the harhous covered with a very large number of dead crabs, with their shells broken, the fracture having hom caused by the fishermen smashing the shell to see if they were good or not. The crab is generally killed by the operation, though in some cases it

may possibly escape with its life.

Soft crobs.

The following evidence was given by Mr. Robertson, a fish merchant of 37 years' experience, at Dunhar. "The merchants will not take these soft crabs. They are broken up by flahermen for lasit or thrown dead into the " harbour, the fishermen having broken their shells with their thumbs. From " October to January if 1,000 crabs were caught 500 often would be soft, and " would be destroyed. A law should be made that soft crabs should not even " be brought ashere, they should be thrown over into the water at once " from the creels,"

Mr. J. Anderson, fishmonger, Edinburgh, writes me that "he has been " informed that the Dunbar fishermen select all the soft-shelled crabs, and " after smashing them on the shaft of the boat heave them into the sea; when " asked their reason for so doing, their answer was, to prevent their coming " and eating the bait out of their creeks. Now such wanton destruction of the " very best of the crabe is a disgrace to the community they belong to. My

" informant says he has seen ten dozen (120) cast into the sea in one day. It is a well-known fact that it is only erahs above two years old that eact " their shells, so that the best of the crabs are destroyed."

Take portions of the shell and put them into nitrie acid. The shell of the soft crab efforences much less than that of the crab with the hardgraph shell.

At Scarborough we observed several soft or glass crabs exposed for sals in a fishmonger's shop, and five soft crabs in a basket on the quay.

Mr. Sellers, fish merchani, Scarborough, stated:—"Many soft crabs are taken in the trawl nat from October to March, and in July and August. One out of four of these soft crabs are not sileahle and not eatable. There is

"no difficulty in distinguishing between a light crah and a full crab even in
"the water. Is in favour of returning them to the water."
A section of the claw of a soft glass or light crab will show that the meat has shrunk away from the shell, whereas in the full crah the meat completely fills up the shell of the claws.

up the shell of the claws.

Mr. W. Paul stated in evidence,—"Crabs are not need as hait when they are Crabs used for
"in good order, they are too valuable. The claws of crabs in November are bulk."
"in good order, they are too valuable. The claws of crabs in November are bulk."
"active and watery. Thinks that the watern destruction of crabs units for food

" act and watery. Thinks that the waston destruction of crabs units for food
" is the cause of soarcity. Even in October when crabs are in good condition,
" the claws are sent to market and the holdes need as bait. The hody of the
" male crah is rarely sent to market, it is retained for bait, and the claws alone

"male orah is rarely sent to market, it is retained for bait, and the claws alone
"are sent to market. Both the claws and hody of the female crab are sent to
"market."

At North Sunderland we heard from Mr. Robson: "The light crabs come

At North Sunderland we heard from Mr. Robson: "Is a light crace coins in about November. Sometimes they are hove away, but sometimes they are no soft that they float, and cannot get to the bottom. Thinks it is a great "waste to destroy the soft crabe."

At Beadnell we heard: "In every day when he began fishing (in October)
"there were from 10 to 50 crahs in avery net; and in some nets all the crahs
"were had; the great majority were soft. Only got one barrel of crahe out
" of the whole take. This ought not be hallowed."

or the whole take. It is designed that he "Gets a great many soft crabs. Thinks this "a very great waste. It would be a good thing to stop the waste." I consider that having ascertained that such vast numbers of these glass

cube with builts shalls (which as we see from the show have many minors) are annually dentroyed throughout the country, the Leghtsiane should at once put a stop to the protein. As the Salmon Faborite have hear greatly and the should be the should be proteined to the should be also the the country of the should be proteined; the glass or soft creds from wanter destruction. These crubs are of no set, except sometimes as built to the faborites. The principation of the wholeshall and not find the the faborites. The principation of the wholeshall and the should be also should be also should be also should be preserved. These and myself opins agree that these kind of each cloud he preserved. These however, legal definition is on the way which I rest may be overcomen by those whose special dwy it is to follow my opinion the each fabrices of this country would be now benefited than by any opinion the each fabrices of this country would be now benefited than by any opinion the each fabrices of this country would be now benefited than by any opinion the each fabrices of this

lingsi to thi game or that country would be more benefited than by any other exactment.

As crabs and lobaters are only caught in pots, their stomashs are in con-Pool of crake. sequence full of this hait which is used to emilies them into these pots. They are in their halts almost purely fish eaters. This is proved by the reachi-

ser in their habits almost purely fish eaters. This is proved by the roadiness with which styp go into the pole to get at the habit. The conmitted of the pole of the pole of the pole of the pole of the pole. The constant of the pole of the guarantie, blan, ray, warsa, plake, cola, gurnet, shatted, poch is, spifer each, or correlets, haddedly heads, and eat if it is also continued to the pole of the Tax fellowers the styp purely to eath vause, but not to eath couls, though hat to eath

The fathermen break up crabs to case wears, not not to contain the strong of and bisters, crabs are probably cannible. In some places the crab is called the king of and bisters, the sea.

The strongest smelling buits and the highest coloured baits have the

The strongest smelling buits and the highest coloured baits have the preference. The whitehound, on account of its scent, is preferred by the fishermen.

It is a strange thing that lobsters seem to be attracted by colour. Rielard Little, East Looe, stated, "that he generally keeps gurnards pickled in hrine." It is necessary to keep the colours bright, because lobsters seem attracted by "colour."

"colour." Neither crabs nor lobsters will go into the pots unless there is some stent in the fish bait. The crabs are very particular as to diet, they will not eat stale fish. Lobsters will ent any kind of beit, even dritt fish or stock fish; they

will even take a stinking bait. Fish ie so necessary as bait for crabs and lobsters that the fishermen are sometimes obliged to break up the young of the edible common crab to catch larger crabs. Crabe are also used as buit on lines, especially in places where mussels and limnets are scarce.

The fishermen are in most inetances aware that they are acting unwisely in breaking up crabs for buit. William Prynne, East Looe, stated, "com-" mon sense leads the fisherman to spare the small crabs at all times except
" when they are required as buit. The fisherman agree with him that when the hookers have done fishing but is very scarce, and that under these circumstances it is absolutely necessary to break up small crabs to catch wrasse, which are used to cotch lobsters. The Loce men have entificient sense

" to return the small crabs at all other times of the year."

If a law prohibiting crabs for hait were made, it would press vary hard upon

the old people. Crabs are also used for bait, not only for the long lines, but for the haddock lines. The hooks are baited with crabs, bullock's liver, and nussels. The evidence at Muchalls was that svery third hook in the long lines is bailed with crahs. Mussels are very costly in some parts of the country. They are nearly 3t, a ton before they are delivered at Stonshaven; the principal supply of mussels is from Boston Deeps, the mouth of the Tees, the mouth of the Clyde, &c. NATURE has laid down for land animals the great law of "eat and be

" We find that this law applies also to the animals which live in the

Recuies of crabs and lobstore.

Pollutions.

sen. The enemies of the cmb and lobster may be divided into animate and Among the inanimate we find firstly storms. The evidence at Peterhead goes to show that a great many crabs are killed during January and February, and in fact throughout the year, by storms. The occasional storms of July and August probably have the effect of destroying large numbers of crabs when they are soft. A witness at Penzance stated that the storm which occurred in 1873 was very bad for that time of year, and crabs have disap-

peared ever since. A witness at John O'Groats stated that coarse weather has been worse than usual. During the last four or five years the storms have

destroyed many spawning places. Crabs do not suffer like river fish from pollutions, but still they are not entirely exempt from the consequences of placing waste material into the water. Thus at Cullercoats we learns that a vast quantity of dredgings from the bed of the Type ships, hallast and alkali refuse (most bluebilly) has been brought down by barges called hoppers and deposited at the mouth of the Type. Five hundred thousand tons of rubbish are thus deposited in the acc. in the course of one year. This has been going on for 20 years. No less than ten million tons must have thus been deposited in the sea outside the Type. This vast accumulation of foreign and noxious matter must necessarily have greatly interfered with the natural habitat and comfort of the crab and lobater.

A similar case of pollution occurs at Plymouth; harges coming from the oil of vitriol stores shoot their refuse ontside the breakwater. The refuse from

these is white like mud; it is probably waste lime. Throughout the neighbourhood of Peterhead and Franceburch an idea prevails that the lobsters and crabs were all destroyed by tobacco. A ship with a cargo of tobacco was wrecked about 40 years ago at Kirkton Head,

three miles north of Peterhead Before the wreck occurred it was usual to catch four or five lobsters in a ring. When the wreck occurred they were thrown up in cardoads on the shore, and the fishery has been very poor ever since. This tobacco pollution

might have taken effect at the time, but I do not think it could have been permanent. Among the animate enemies the principal enemy I believe are cod.

witness at Burghead stated that "coulfish are great enemies to lobsters; he " hardly ever opens a cod without finding young lobsters in the atomach; this " is particularly in February and March. Has seen cod throwing up lobsters on "tle dock of a vessel, as many as five or six lobsters in one cod. These lobsters "would be three or four inches in laugth, or even smaller. Cod eat lobsters all

" the season. In the spring and in January, February, and March there are " many cod about."

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States and congress, and codling and haddoors, also cut erabs and losters. Both crabs and lotters when in a cell considies note concentrant, as though they were aware that sit that time their armore was not in a fit condition for fighting, and that they may be easily judiced up by the careny. A writers as Penames informed us that a little insect of the chrimp tribs appeared more that Lagan Rock 1 years may be a first first the chrimp tribs appeared and the Lagan Rock 1 years may be a first first that the name of the insect. Whenever those inactive reason of the first the name of the insect.

this insect, and have therefore no ides what they really are.

The same wifness considers that the natural destruction of shell flab by slate and cod is ten times greater than by fishermen. Skate and cod are sometimes full of small crabs. I am also of opinion that the young crabs, when in the form of Zoes, afford food for flab and many other inhabitants of

In the spring and summer a great number of small ceabs are picked out of the rocks by women and children; but I do not think much of the

mischief done by them.

Among the enemies of the emb I must not forget the octopus. This creature is a great crab cater, as proved at the Brighton Aquarium. Where he exists, he, no doubt, plays great havoc among the smaller edible crabe.

As there are two different sizes of crabs, so also there appear to be two different sizes of lobsters.

The deeper the water and the further from the above, the larger are the leidestre. Loren issuies. The filty and the Cherry butters are groundly the larger in the British 1988 and the Cherry butters are groundly the larger in the British 1989 and the Larger and Semme of one of 13 lbs. A large belief was adapt in a large actionness per at Cherry in 27 Lorent and 1989 and 1989 are and 1989 are already as a single state of the Larger and Semme of the Cherry in 27 Lorent and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already as a single state of the Larger and 1989 are already state of the Larger and 1980 are already

those in Falmouth Bay, but endre one smaller.

The largest lobelers that have come under my individual notice are, first, a lobster weighing 109 lint, sent me from Tenby, and now in my museum; as concelly, a lobster persented to me by John Bystat, of Messes, Winder's, Haymanket, measuring 3 inches in the barrel, the total length being 199 lnokes, and the weight 99 lint.

and the weight 93 lbs.

In the York Museum there is a magnificent specimen of a lobeter, of which
the following are the dimensions: barrel 92 inches; top of beak to tail
193 inches; 1rd claw, the crusher, length 103 inches; right claw, cutting,
length 103 inches; left claw at widest part 5 inches. This was an American

specimen.

Another very large lobster we came across in our inquiry was a grand appecimen which we examined in the house of Mr. Scovell, at Hamble, near

specimen which we examined in the found of Mr. Govern, as Hanney, user Southampton. The following are the dimensions: Length of barrel to tip of horn, 2! inches; length of tall turned under the body, 12 inches; total length, two feetal lib uthree quarters of an inch. Right claw, 19\ inches long, pririb, 12\ inches; weight when killed, 14 lb. This [obster Mr. Sovell informs wars caught in a transmel net on the coest of

Correctly, course of our inquiry we had relatince which poisant to the possible femily-before, centres of a smaller kind of boloter. A winess inferred was that on part of the coats, near Hoy Island, the belosters are always small. It is an unshabited the coats, near Hoy Island, the belosters are always small. It is an unshabited with the coats, and the coats of the coats of the coats of the coats. The coats of a possible in weight, their is about few inches long; they are called a coats of the coats of the

to Shordam. It is very possible that the holsten come in from great distances to bread in the locality. The vater is in the summer time considerably warmed by flowing over large tracts of anal which was hosted by the ann. Built in to the walk of the store at Begune I observed overal stone covered with dead syster eart. Oysten will not address unless the water is wearn. I conclude therefore that the warmth that is forwardle to crysten beauting in the forwardless to young destern. Small locations are also complete the control of t

not grow large. Out of 20 only 5 or 6 will measure 11 inches.

Small lobeters also come from Ayrehire. The very small lobeters at Whitby are called nintycocks or nancies.

see at losses. The femule holoster may be distinguished from the male by no less than frame.

Firefly, the femule is much broader across the such of the tail than the male.

I have measured the stalls of make and femule closter, both sheing about the contract of an inch treater of an inch treater than that of the male. This is a boundful proposal to you space for the bumbles of eage. I have also remarked that the broad cand of space for the bumbles of eage. I have also remarked that the broad cand of

the side armour plates of the tail are much closer together in the female than in the male. This serves as a protection for the eggs. Secondly. A male can be distinguished from a female lobster by the strong spines upon the inner arch of the joints beneath the tail which support the

spines upon the inner aron or the joints sensith the tail which support the middle plates of the tail. In the male these spines are strong and projecting. In the female, they can just be felt by the finger. Thirdly. In the male the first pair of legs or feathers under the tail are large; in the female they are small (not balf the size).

in the female they are small (not balf the size).

The eccond pair of legs also differ; the male has a kind of spur on them which is absent in the female.

Fifthly. The mak lobster can be distinguished from the female in the following manner. At the junction of the last pair of legs with the body can be found in the male two minute holes, large enough to admis a prin. In the formale, stills before will be found in the acane relative stitution, at the insection of the pair of claws which are the second above the saddle and the third from the timbuling claws.

Eggs of lobstors.

ors. The herried lobuter carries five bunches of eggs on each side underneash the tail, making ten bunches in all. I have counted the eggs on one bunch and find that there are 2,496 on one bunch, making the number of eggs in this one lobate: 24,960. Lobates are found with berries all the year round; March, April, May, are

the months when they are fullest.

In order to supply lobster eggs to the cooks for sauce, Mr. Sheppard, lobster boiler, has collected in April and May from 14 to 18 pounds of lobster saves. I find 6 320 oras no convene debates result in the control of the cont

lobater boiler, has collected in April and May from 14 to 18 pounds of Schures enawn; there are, 1 find, 6,759 eggs in one cause of lobater spawn. Here then were destroyed eggs which might have represented, asy, in 16 lbs. of eggs, no less than 1,720,350 lobaters.

Batters levels - I have fortunately been able to obtain the following interesting account of

below besides. This by the ochemen falls entirem the hat M Conte-"The below common beneding in the month of Orthon, and the paining in The below common beneding in the month of the other, and the paining may of the second, but there is a former. The configuration are not at the orgation, and the second, but there is a former of the second to the second of the eventy rips after the paining. When they have reached the stage proper for versity rips after the paining. When they have reached the stage proper for a full immediately over the formers, in such a means are form a cup or early, in which are to be found the openings of the orients, placed easily eventy in the second of the content of the content, placed easily and the second of the content of the content, placed easily and the content of the content of the content of the content, placed easily the content of the content

are expelled in successive jets to the number of 20,000 in a single day,

"The lobster along with the eggs, emits at the same time a kind of adhesive liquid, which binds the eggs one to the other, and attaches them all to the small feet under the tail, where they remain in perfect shelter from all harm until they are sufficiently ripe for final expulsion.

"In order to forward and force the regular incubation of the ova, the females have the power to give them more or less light, as they consider requisite, by closing or opening the fold of the tail. Sometimes the eggs are kept quite covered, and at other times they give them a kind of vashing by moving the flangee of the tail in a peculiar manner. The incubation laste six months, during which time the female takes such good care of the ova, that it is rare to

find an injured embryo or barren egg. "It is during the months of March, April, and May that the notual birth of the young lobster takes place. The females, in order to expel the embryos, now ready to burst the abells of the eggs, extend their tails, make light oscillations with the fan and its appendages, so as to rid themselves gradually of the young lobsters, which they succeed in doing in a few days. The young lobster as soon as born makes away from its parent, risce to the surface of the water and leaves the shores for the deep waters of the sea, where it passes the earliest days of its existence in a vagabond state for 30 or 40 days. During this time it undergoes four different changes of shell, but on the fourth it loses its natatory organs, and is therefore no longer able to swim on the surface of the water but falls to the bottom, where it has to remain for the future; according, however, to its increase of size it gains courage to approach the shore which it had left at its birth. The number of enemies which assail the young embryos in the deep sea is enormous, thousands of all kinds of fish, molluson, and crustacea are pursuing it continually to destroy it. The very changing of the shell causes great ravages at these periods, as the young lobsters have to undergo a crisis which appears to be a necessary condition to their rapid growth. In fact every young lobster losse and remakes its crusty shell from eight to ten times the first year, five to seven the second, three to four the third, and from two to three the fourth year. However, after the fifth year the change is only annual, for the reason that were the changes more frequent the chell would not last long enough to protect the ova adhering to the shell of the female during the six months' incubation. The lobster increases rapidly in size until the second year, and goes on increasing more gradually until the fifth, when it begins to reproduce, and from this period the growth is still more gradual."

In July 1867 I took down two berried hens and placed them in my experi-

mental fishery at Reculvers near Horne Bay.

In a few days all the berries hatched out, the water was swarming with thou- Young lobeters. sands of little soes. After they were bricked the little lobstere swarm about in chosis near the surface, but at the end of a fortnight, although they had undergone no alteration of form, they took up their residence at the hottom. Cold easterly winds which had lowered the temperature of water may have had something to do with the change of habit. I was not able to raise

these zoes as the place was so mnddy, and young lobsters I believe require By the kindness of Mr. Henry Lee, who has made several beautiful micro-

ecopic preparations of young lobsters intohed both at Reculvers and at the Brighton Aquarium, I am enabled to give in the Appendix, 1st, a drawing of the egg of the lobeter with the young just ready to hatch out; 2nd, the portrait of a lobster 24 hours old. (See Disgram No. 4.)

A correspondent at Brixham in 1873 hatched out young lobsters. He writes: "I cought a berried hen in our transmed and placed her in a tank is about 5 feet swarps with a constant flow of water. In two days the tank " about 5 feet square with a constant flow of water. " was alive with young lobsters, and others were rapidly hatching; they seemed busily employed in seeking for food amongst the animalcule with which

" the salt water is supposed to be filled." Lobsters when soes undergo many transformations and sheddings of shell

before they assume the form of their mother.

Mr. Saville Kent, curator of the Westminster Aquarium, informs me that according to his observation a little some lobster sheds his shell 12 times before

he becomes sedentary, each metamorphosis being different in shape. He will become the size of a prawn in six weeks.*

The smallest perfect lobster I ever saw was at Bognor. I have also a specimen in my museum, one of which was taken from the inside of a cod. It measures 1½ inches in barrel, 1½ inches to the tail, total, 2% inches; also two others taken by myself at Herno Bay, measuring respectively 4½ inches

and d imbes.

As regard for one of its young, and the midlication of belowers, is was An regard for one of its young, and the midlication of belowers, is was make a near little as wellow, building it with must not sand with the frame, and the contract of the property of the contract of the property of the contract of the property of the contract of

No experiments have yet been carried out as to hatching and rearing lobsters by artificial means. I think it possible that if properly carried out lobster breeding rounds might be made a snocess.

breeding pendis might be mide a success.

It is apparently possible to citabilità a bobier fishery under favourable circumstances. I am informed on good authority that when they were building
that Lowenthy fare comes years ago, a small reseal main, in the harbour label
the Lowenthy fare comes years ago, a small reseal main, in the harbour label
to the composed of large hlocks of some composed of the pire, which was
composed of large hlocks. of some composed of large hlocks of some composed of large hlocks of some composed of large hlocks. If the some composed is lowested, which
has a low sandy banch.

It is curious that Lobetter aumon different colours during the moreose of the

sanging colour.

bolling. Nerwey lobiers turn a dags rad, while the Societies an error et an attention matched. Fronch obsteres also bed red. Here a shotter is constrained called "The Carolinal of the Sea" by Prosalt inherence. Of Bangori obsteres are somewhat by the occlour; this is simply a variety, many constraints and the content of the simply a variety. In May 1981 records a mention of the occlour; the simply a variety was haff alkino. One side of the hourst was blind alkino. One side of the hourst was blind alkino. One side of the hourst was blind the obster was white state of the side of the side

labits of detress Lebetures are good deimbers. Their Bowards haunts are deep down in the Education are good deimbers. Their Bowards haunts are deep down in the color called "option" of the color called "option" of the color conclude that they live in place to the color called "option" of which it is canded to feel its way in dark phases. It is now able to feel object when the color called the called to feel its way in dark phases. It is now able to feel object when the color called the called the

^{*} Those who are interested in the subject of the twisnessessurarphoses of the young lobator, should observe what happone with the zoen of the commen river carrytals (defense plantatile). These fresh water leisters can be loop under observation much cause them the self-reshifted.

ascertain its wherehouse purelous is acting it. When faciling the bloker moves it have the account in the move the fixed in account in the movemen that was the account in the movemen that was the account in the contract of the property of the contract of

tion we find in the crab. The intestine is one straight tube running down the middle of the tail to an aperture which can be found near the tail flaps. Lobaters have a certain amount of intelligence. Mr. Reid, of Wick, a very Swimming of

Loboters make a certain advanced or listinguesses. See Assigned when a level when a level parties a level of or wiser immediately in factor of him into which he may escape at the significant inflication of danger. Wheneas the common cash cannot strain, which is the level of the list of the level of the level of the list of the level of the l

having somehow found out they are dangerous.

Lobsters grow like crabs, by means of shedding flaber abells, these shed Lobsters from the crabs. By means of shedding flaber abells, these shed shell as very perfect. I have in my mescum the shed shell of a lobster from shell saw very perfect. I have in my mescum the shed shell of a lobster from shell, where I and some fixed sirely some experiments. The lobster in this case could not have been more than an hour in casting its shell as the strength when some to dimer left one lobbtes, and when he returned

conter in this case could not have been more than as lower in casting; it is not a sat to attendar where going to dimen left one lobits; and when he returned there were apparently in ... M. Glims, of Palenan, indenae no lata in 160, covered with silver leve. It was quite from and lively easily in the morning, but lower from hours heter he found it had thrown off its outer coat. I have a fine apparent meaning the silver level in the morning had the silver level in the silver level i

The crayfish at Brighton Aquarium sometimes shed their shells; a very perfect specimen of the shed shell of a crayfish has been deposited in my museum by the Directors of the Brighton Aquarium.

Lobetes are very intellerant of cold. In odd weather they sean numbed and carically earlies into due powers. In weight weather they seem fillent to carry. Mr. Sovoid off Manche informed we than a bloker in a well-off march carry. Mr. Sovoid off Manche informed we than a bloker in a well-off march carry in very lost of march and the carry of the carry of

live better if placed in the cellar among the coal. Coal seems to have some effect in keeping them alive. Another way of keeping them alive, which is rather a occret, is to place them in a barrel with straw; the strew should be well wetted with stale beer.

wetted with stale foer.

Lobsters are great fighters; they fight by pinching and smashing each other's Caus of lobsters claws. It will also be observed from diagram No. I that the tips of the two

anterior pair of the walking claws of the lobster are notched and therefore prehensile, while the two hinder pair of logs end in a brush-like tip. I have not yet arrived at the meaning of this difference in attracture. In the female the brush-tipped claws may possibly assist in depositing the eggs under the

* In nearly all the lateriers I know discovered some very curious parasites tightly editerent to the largest somewhat resembling the parasites attached to the gift of sultons. I have not the laterier when the parasite of the blatter's large statements of the blatter's large strengthening known as Nicoline astoci. tail. A correspondent has examined [A78 belower. He reports that the sub-lobtite tale the left she shaves, legare and formitted with course textile should be the left of the

iling crabs an

ad Both during the inquiry on every suitable occasion I have endeavoured to ascertain evidence relative to the boiling of crabs and lobsters, and have tried experiments on this point. It is quite certain that crabs in some parts of England are placed in cold water which is gradually heated up to boiling point, so that sheep during and to be literally hotfed alive.

At Southorough a wirans stated i "The cebe are put into cold water and At Southorough a wirans stated i "The cebe are put into cold water and "gradually holids); they die long before the water holis, as they are drowned, in not being able to live long in fresh water. If they are put into hot water they cast their claws." I have tested these statements by placing crab in cold fresh water, and did not arrive at the same results as the winners.

On love where some more war as one some beaution to now recession.

On the property of the pro

lobsters.

is on the county and the county of the count

greatly assist to put a stop to this barbarous practics wherever it is carried on.

I would like findly, but so arry for work about the Crystols, at that Crystols, and that Crystols, as that Crystols, as that Crystols, as that Crystols mind farms in important addition to the public for Critical Constitution of the Spring behaves "or "red only," (Fullerurs volyaria). It is not so highly estemine for food in this country as in Pracox, when it is called "Languagest." The fam is the Scity Indian, I have cover reason to believe that the carry-that somignatory. Mr. Good, a fablement of Sermes, informed in the Crystols and the Crysto

Bint the swy-this summerator, Mr. Ronda, a fablement of Sentens, informed much their geam is calcular, without me in the prof the water in polarization much their geam is calcular, and the state of the same polarization of the state of the same. Mr. Ronda this summer the grant way in number from assens to sense. Mr. Ronda this summer the production of the same polarization of the same polariza

carries herries in February and March.

In concluding these remarks I hag to observe that many specimens illustrative of the natural history of the erahs and lobsters can be examined at my Museum of Economic Faia Culture, South Kennington.

FRANK BUCKLAND.

JOINT APPENDIX No. III.

DIAGRAMS

TO ACCOMPANY

REPORTS

ON THE

CRAB AND LOBSTER FISHERIES

OF

ENGLAND AND WALES

AND OF

SCOTLAND.

- No. 1.—Lobster, 8 inches long (life size).
- " 2.—Crab, 5 inches long (life size). " 3.—Crab, 4½ inches long (life size).
- ,, 4.—Lobster, in egg, and 24 hours old (life size and magnified).
- , 5 .- ZORA OF CRAB, TWO STAGES (life size and magnified).
- ", 6.—Growth of Crab on Casting its Shell.

 7.—Tails of Male and Female Crab (life size).
- , 7.—Tails of Male and Female Crab (tife size).
 8.—Feathers and Spawn, from Tail of Female Crab.

APPENDIX

70

REPORT ON THE CRAB AND LOBSTER FISHERIES

IRELAND.

RETURN of PLACES where INQUERES have been held during SEPTEMBER, OCTOBER, NOTBERER, and DROEMBER 1876, and JANUARY 1877, into the COMPITION of the CRAB and LOBSTER FIGHERIES OF IRELAND.

County.		Inquiries held at		Tenor of Evidence.
Dublin	-	Dublin -	-	Supply of lobsters not so good as formerly; a good many of 8 and 8 and even 5 and 4 inch taken. It favour of enactment prohibiting capture of any under 54 to 9 inches
Wexford	-	Wexford -	-	Supply of lobsters as good as ever In favour of enactment that non- be taken under 8 to 10 inches.
Do.	-	Kilmore Quay	-	Supply not so good as formerly. It favour of enactment prohibiting any being taken under 9 inches.
Waterford	-	Waterford -		Supply of lobsters and crabs as good as ever. In favour of enactmen prohibiting lobsters under 9 inches and crabs under 5 inches from being taken.
Do.	-	Dunmore East *	•	Supply of lobsters as good as ever In favour of not allowing any unde 9 inches being taken.
Do.	-	Tramore -	-	Supply of lobsters decreasing. I favour of enactment not to allous any under 9 inches being taken.
Do.	-	Ballinagoul*	-	Supply of lobsters more plentiful that
Do.	-	Ring* -	•	Supply of lobsters as plentiful as eve In favour of enactment not t permit any under 9 inches bein taken.
Cork -	-	Ballycotton*	-	Supply of lohsters as plenty as eve In favour of enactment not permiting any under 9 inches being take
Do.	•	Cork -	-	Supply of lobsters and crabs decrease In favour of enactment not to pe to be taken lobsters under 10 inch- and crabs 6 inches.
Do.	-	Kinsale -	-	No decrease in supply of lobsters. I favour of ensetment prohibiting capture under 12 inches.

Do. Danny Core - Supply of lobsters increased and the continued problem of the continued problem	County.	inty.	Inquiries held s	ut	Tenor of Evidence.
Do. Union Hall Do. Union Hall Do. Contineousend Do. Baltimore Do. Baltimore Chrigabolt Do. Do. Confighton and proper in the complete supplied in the complete supplie	k -	- Clo	onskilty -	-	
Do. Union Hall- Do. Castelerwasend - Cas	٥.	- Dn	nny Cove	-	10 inches and latter under 6 inches Supply of lobsters increased. In favour of enactment prohibiting
Do. Costellorwaned specific production at least an good as experimental political poli	0.	- Un	ion Hall -	-	Supply of lobsters increased. In favour of enactment prohibiting capture
Do. Haltimore - Supply of lobelets falling of the property of the property of lobelets and property of the pro	٥.	- Cn	stletownsend	-	Supply of lobsters as good as ever. In favour of enactment prohibiting
Actry - Port Mages - Supply of Debutes as good as ever before the control of the	0.	- Bal	timore -	-	Supply of lobsters falling off. In favour of enactment prohibiting
Do. Dingle Supply of lobsters as good as recommendation of the properties of any uniford particle of the properties of the propertie	rv -	- Pos	t Mages -		Supply of lobeters as good to over
Clore - Cerrigabolt - De. do., De. Saidds' - De. do., De. Saidds' - De. do., De. Guilty's Cross - De. De. Saidds' - De. De. Saidds' - De. De. De. Saidds' - Supply of Lobeters more soft of the control o	o.	- Dir	igle -	-	Supply of lobsters as good as ever. In favour of exactment prohibiting
Do Kilkede - Do	re -	- Co	riosholt -		
Do. Scataled Case Do. do. do. Do. Do. Prophysication Do. Do. Prophysication Do.		- Kil	kee* -	-	
Do Guilly's Cross - Do Constitue of the Constituent of the Const	٥.			-	Do. do.
Do. Liscianiers* - Supply of lobates more plenty. Do. Ballyrougham of Cornelly, in forward of enacis formately, in forward of enacis framework of the Cornelly of the Cornell of the Cornel	٥.	- Qu	ilty's Cross	-	Do. do.
De. Fisherstours* De. Ballyranghan Ballyranghan Ballyranghan Galway Spiddle Spiddle Spid lobeters as good as ever Spiddle Spid College Spid Spid College Spid Spid Spid Spid Spid Spid Spid Spid	٥.	- Fre	aghoastle*	-	Do. do.
Do. Bultwarden Spiddle	0.	- Lis	canhor* -	•	Supply of lobsters more plenty than formerly, in favour of enactment prohibiting capture of any under ginches
Galway Spiddle				-	Supply of lobsters as good as ever. Supply of lobsters as good as ever. In favour of enactment prohibiting
Do Costello Rey Supply of closters and enab for the first in favor of anothrance in the first	way	- Spi	ddle -	-	Supply of lobsters decreasing. Against any restriction as to size to be
Do Rosmuck - Supply of lobiters decreasing. Do Roundstone - Supply of lobiters increasing path frow of manufacture of most probability capture of enacting probability capture under 8 of probability capture under 8 of probability small ones being Galway - Ballycomoselly - Supply of lobiters as almity to a Supply of lobiters are assessing has been probability of lobiters are supply of lobiters and probability of lobiters and probability of lobiters and probability of lobiters and probability of lobiters and proposed to the proposed proposed probability of lobiters and proposed	Эо.	- Cos	tello Bay	-	Supply of lobsters and crabs decreas- ing. In favour of enactmust pro- hibiting capture of former under 10 inches. Against any restriction
Do Roundstone - Supply of lobsters increasing last years. In favour of enactr years, In favour of enactr leads of the property of the problems of the problems of the problems one being continued one being continued on the problems of the problems are problems as the problems are problems as the problems are problems as the problems are problems. The problems are problems are problems are problems are problems are problems are problems.	Э0.	- Ros	smuek -	-	Supply of lobsters decreasing. In favour of enactment prohibiting
Do Salerno* - Supply of lobsters decreasing. Age prohibiting small ones being tured. Supply of lobsters as plenty as a	00.	- Rot	indstone -	-	Supply of lobsters increasing last two years. In favour of enaciment prohibiting capture under 8 or 10
Galway - Ballyconneelly - Supply of lobsters as plenty as)o.	- Sale	rno* -	-	Supply of lobsters decreasing. Against prohibiting small ones being cap-
capture under 8 or 9 inches.	vay	- Ball	lyconneelly	-	Supply of lobsters as plenty as ever. In favour of enactment prohibiting
Do Clifden Supply of lobsters as good as a In favour of enactment prohibi	00.	- Clif	den -	-	Supply of lobsters as good as ever. In favour of enactment prohibiting
Consider restriction as to size	ю.	- Tul	ly* -	-	Supply of lobsters better formerly. Consider restriction as to size of
Do Letterfrack* Capture of no importance. do.	00.	- Let	terfrack*-	-	Do. do.

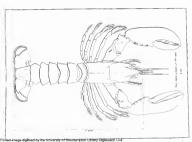
County.		Inquiries held a	t	Tenor of Evidence.
Mayo		Achill -	-	Supply of lobsters increasing.
Do.		Elly Baye -		Abundance of lobsters.
Do.	-	Belmullet -		Do. do.
Do.	-	Ballycastle* -	-	Do. do
Do.	•	Kilcummin -	•	Supply of lobsters same as ever. I favour of enactment prohibiting capture under 8 to 10 inches.
Sligo	•	Sligo -	-	Supply of lobsters decreasing. In favour of enactment prohibiting capture under 7 to 9 inches
Do.	•	Ballyconnell	-	Supply of lobsters as good as ever In favour of enactment prohibiting capture under 7 to 8 inches.
Do.	•	Mulinghmore	-	Supply of lobsters as plentiful a ever. In favour of ensetmen prohibiting capture under 7 to 8 inches,
Donegal		Teelin -		Supply of lobstess as good as ever Asserted that there is a small rur of lobsters about this place, this those of 9 inches are good, and it those of that size not allowed to be taken, it would be an injury to the fishermen. Those of 11 inches the property of the control of the much for amount of the part of take any less than 8 inches, throw small ones back.
Do.		Killybegs* -		Few lobsters taken on this part of the coast,
Do.		Inisheoo Island	Ī	as 4 inch taken. In favour of enactment prohibiting capture under 8 to 9 inches. Crabs as plenty as ever, but of little value.
Do.	•	Dunfanaghy	•	Lobsters as plenty as ever. In favour of enactment prohibiting capture under 8 to 9 inches.
Do.	•	Buncrans* -	Ī	A considerable decrease in lobsters. Capture less than half as compared with 10 years ago. In favour of restriction to prevent small ones being taken.
D ₀ .	•	Malin Head -	•	On one side of Head, lobsters said to be as plenty as ever. On the other a decrease said to have taken place In favour efenacement prohibiting
Do.	•	Moville -	•	A great falling off in supply of lobsters and crabs. Very small lobsters taken. In favour of enact- ment prohibiting the capture under 8 to 9 inches.
Antrim	1	Portrush -	•	Supply of lobsters and crabs greatly decreased. In favour of enact- ment prohibiting capture of lobster- under 9 inches.
Do.	-	Port Ballintoy*	-	A decresse in lobsters.

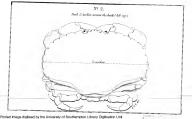
County.		Inquiries held r	ıt	Tenor of Evidence.
Antrim	-	Ballycastie -	-	A great decrease in lobsters, attri- buted to quantity of small once taken; amall once usually sold by the pound. Do not bring half as much as good once. In favour of enactment prohibiting capture moder 9 inches.
Do.	-	Larnes -	-	A considerable decrease in lobsters. Size diminiahed.
Do.		Carrickfergus*		Do. do.
Do.	•	Belfast -	-	A great decrease in supply of lobsters many small ones sent to market In favour of ensetment prohibiting capture under 9 inches.
Down	-	Donaghades		Lobsters as plenty as ever, but rur smaller. Said to arise from no being allowed to grow. Three or four sometimes counted for one In favour of restriction as to size to prevent small ones being taken
Do.	-	Portaferry -	-	Lobsters as plenty as ever. In favour of enactment prohibiting capture under 9 inches.
Do.	7	Kilkeel -	•	Lobsters as plenty as ever. In favour of exactment prohibiting capture under 9 inohes.
Do.		Ardglass -		Do. do.
Do.		Newcastle ⁶ -		Lobsters as plenty as ever.
Do.	-	Annalong* -		Do, do.

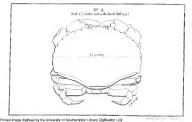
Note.—In the places marked thus * our fraquiries were not previously publicly advertized, but the parties interested were noticed to attend, and inquiries made or roste.

LONDON:

Printed by George E. Evre and William Sporreswoons, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.







Resources personnelles and Duras courses on the Tourses LORSON IS BUT, AND FOUR RAPPERSO (MAPSON) Leaven to yours out (The Negeral aim to represented orbits the circle) (Manglet ent Life ent)

No. 5.

SPECIMENS REPRESENTING THE DEVELOPMENT OF THE CRAB.



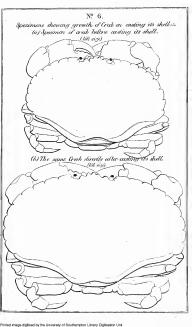
ZOEA OF CRAB (First Stage) MACRIFIED.

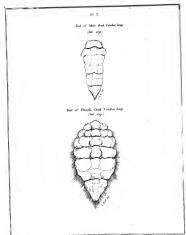
(The Natural site is represented within the circle.)



ZOEA OF CRAR (Second Stage) MAGNIFLED.

(The Natural size is represented within the circle.)







Outer Frother from Tail of Famule Crab.



Inner Fasher from Tail of Finale Crab with sposes, in an immature state attacked